



# CApp Minds-17



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## PONGAL FESTIVAL CELEBRATION ON 12<sup>th</sup> JANUARY 2017

- Pongal literally means overflowing and is named so because of the tradition of cooking the new rice in pots until they overflow, which is symbolic of abundance and prosperity.
- Students of MCA and M.phil celebrated Pongal on the theme “Uzhavarodu Uravadu” All the students and staff members of the college participated in the celebration. Both faculty and students were dressed in traditional outfits.
- Pongal is celebrated in all magnificence in a traditional style. Rangoli and flower carpets were designed by the students and staff together and pongal was prepared.

**“Joy filled the air, it was totally a colorful pongal at Alagappa university.”**



## WORLD DHOTI'S DAY CELEBRATION on 6<sup>th</sup> January 2017

- Dhoti is a traditional dress wore by the people in South India. It is commonly used by males but sometimes women in Kerala also use to wear dhoti for special occasions.
- January 6<sup>th</sup> is celebrated as world dhoti day. In Tamilnadu, Schools and Colleges celebrating dhoti day by asking their employees to wear dhoti.
- All gents staffs wore dhoti on January 6<sup>th</sup> as part of world dhoti day..



## VITTYA SAKSHARATA ABHIYAN (VISAKA) DEC2016-JAN 2017

- “VittiyaSakshartaAbhiyan” is to actively engage the youth/ students of Higher Education Institutions to encourage and motivate all payers and payees to use a digitally enabled cashless economic system for transfer of funds.
- Ministry of Human Resource Development views the institutions of higher education in the country, faculty members and students to take the lead and act as engines of this transformational shift.



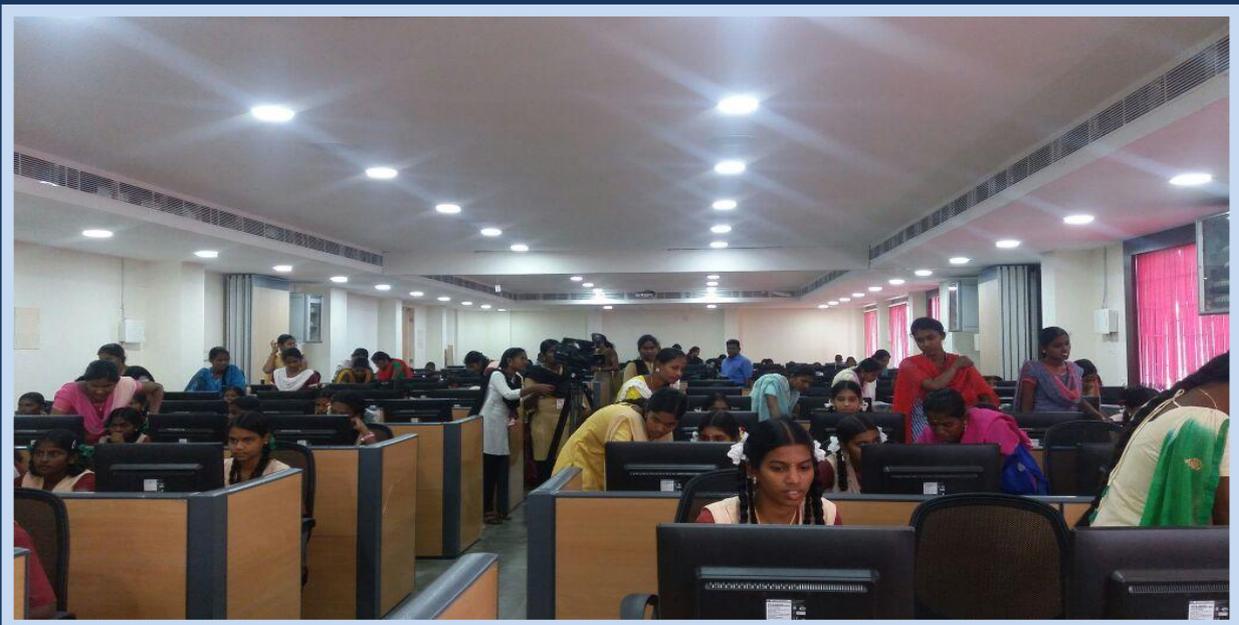


## COMPUTER AWARENESS PROGRAMME TO THE SCHOOL STUDENTS

**Date:** 13.02.2017

**No. of Participants:** 106

**School:** RANEE'S Govt. Girls Higher Secondary School, Pudukkottai.



**SMART BOARD DEMONSTRATION TO THE SCHOOL STUDENT**



## VILLAGE PLACEMENT PROGRAMME 2016-2017

**Date:** 23.09.2016 - 25.09.2016

**Place:** Gandhi Nagar, Amaravathipudhur



### *Organized by*

Department of Computer Applications  
Alagappa University,  
Karaikudi-630 003.

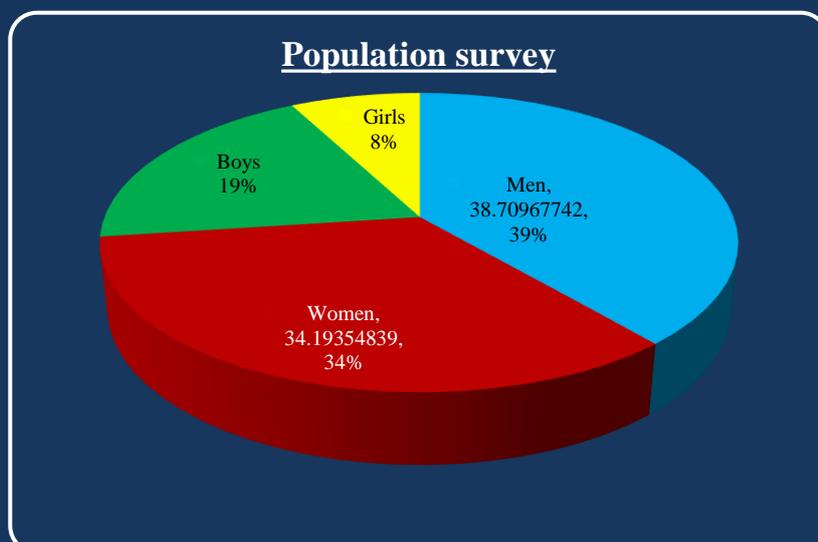
### **Coordinator**

**Dr. A. Nagarajan,**  
Assistant Professor  
Department of Computer  
Applications  
Alagappa University,  
Karaikudi-630 003

- Alagappa University organize Village Placement Programme (VPP) every year for the final year Post Graduate students as part of their curriculum. Under this programme students should stay in the selected villages and analyze the socio-economic status of the people belonging to various communities and religions.
- The main objective of this programme is to identify the demands and requirements of the village people, conducting various awareness and extension programmes on literacy, empowerment, environmental pollution, health and nutrition.
- For the academic year 2016-17, Alagappa University has decided to adopt six under-developed villages for the VPP and assigned five Departments including
  - Department of Computer Application,
  - Department of Biotechnology,
  - Department of Animal health and management,
  - Department of Nanoscience& Technology and
  - Department of Oceanography & Coastal Area Studies
 to Gandhi Nagar of Amaravithyputhur village which is a socially and financially deprived hamlet.

**The Real Hamlet-‘Gandhi Nagar’**

- Gandhi Nagar is an area developed by the Government of Tamil Nadu for the habitation or rehabilitation of Scheduled Caste people in Amaravathipudur village under SakkottaiPanchayat, Sivaganga district, Tamil Nadu. Gandhi Nagar is located around 8 kms from Karaikudi very close to the Trichy and Rameshwaram National Highways connecting Rameswaram.



- Around 50 families resides in the hamlet of Gandhi Nagar with the total population of 155 members. Nearly 95% of the population belongs to Scheduled castes. Except few, most of the villagers have not yet completed their SSLC and their living is based on daily wages. People residing here are mostly tailors, painters, farmers, coolies, plumbers, drivers and security persons.
- The work schedule-VPP base camp at ‘Gandhi Nagar’.

### **Day 1 – (23.09.2016) – The day for “Environment”**

- On 23rd September 2016, around one hundred and twenty four students from five Departments (101 Girls, 23 Boys) started from Science Campus at around 6.30 A.M to Gandhi Nagar for the VPP. Students reached Tamil Nadu Vallambar Community Hall, Amaravathipudur at 7.30 A.M and had their breakfast.
- Mrs. Padikasu Ponnazhagu, Panchayath President, Amaravathipudur inaugurated the programme and delivered the inaugural speech.
- The staff members of the Department of Computer Applications, Dr. V. Palanisamy, Professor and Head, Dr.K.Mahesh , Professor, Dr. P. Eswaran, Assistant Professor, Dr. M. Vanitha, Assistant Professor, Ms. Sathya, Teaching Assistant inaugurated the VPP programme.

### **Coordinators of VPP**

- Dr. A. Nagarajan, Assistant Professor, Department of Computer Applications
- S.Gowrishankar, Department of Biotechnology
- Dr. P. Kumar, Department of Animal Health and Management
- Dr. N. Suganthy, Department of Nanoscience and Technology and
- Dr. S. Paramasivam, Department of Oceanography & Coastal Area Studies

## VPP Inaugural function at Amaravathipudur Village on 23.09.2016



**Dr. Gowrishankar delivered vote of thanks**

## KAYAKALPA YOGA CAMP CONDUCTED BY SREE VETHATHIRI

- At around 11 A.M. Yoga instructors Mrs. Chitradevi and Mrs. Madhiselvi from ArutthanthaiVethathiri Maharishi- ArivuThirukovil, explained the benefits of yoga to the girl students for fitness and healthy life.
- Yoga instructors delivered the message that, performing yoga every day will streamline the body mechanism, enhance energy and memory for students, slow down aging process and boost up their immune system.
- Yoga instructors trained the student's basic 'Kayakalpa' yoga for about an hour. After lunch the students were divided into four groups for the environmental cleaning programme.
- Then Students cleaned the plastic waste, thorny bushes and other unwanted waste near and around Dr. Ambedkar statue and Community hall in Gandhi Nagar.



## ENVIRONMENTAL CLEANING IN GANDHI NAGAR



### Day 2 – (24.09.2016) – The day for “Health”

- In the second day morning, the students conducted socio-economic survey of each family residing in the village.
- Information regarding road, water, electricity, education, health and other facilities available in the hamlet were collected through the survey form.

- Students also collected the details regarding the basic requirements of the village people as video documentary (which was submitted to the volunteers of Department of Life Long Learning).
- After survey collection, the students started cleaning the campus of Gandhi SamadhamaPaadaSaalai, a historical monument in the form of a school which was inaugurated by Mahatma Gandhi. Our students were happy and felt proud in cleaning such a school environment.

### ENVIRONMENTAL CLEANING AT THE GANDHI SAMADHARMA PADASALAI



- Health camp was organized at 3 PM in Gandhi Nagar Community Hall.
- A medical team (Headed by a Physician, three staff nurses and the HR) from Apollo Hospitals, Managiri, Karaikudi conducted the free medical camp, and created awareness on the epidemic disease prevalent in Gandhi Nagar locality, realized the importance of personal

hygiene, hygienic environment and other health related problems along with health check-up.

- Our Honorable **Vice Chancellor Prof. S. Subbiah** inaugurated the health camp, Respected Registrar Prof. V. Balachandran and Respected Syndicate member Prof. S. Gurunathan were also present.



**HEALTH CAMP CONDUCTED BY APOLLO HOSPITAL, MANNAGIRI on 24-9-16**



- The health camp was conducted successfully with the help of our students from 3pm to 6 PM. Height, Weight, Blood pressure, random blood sugar were tested and medical advice were given regarding their health problems by the Doctor's team.

- Around 108 residents of the village participated and benefited through the medical camp.
- As a part of environmental awareness programme, sapling plant.
- Our Honorable Vice Chancellor Prof. S. Subbiah, initiated the camp by planting a tree sampling in front of Gandhi Nagar Community Hall, followed by Prof. V. Balachandran, Registrar and Prof. S. Gurunathan, Syndicate member.

### **SAPLING PLANTATION IN FRONT OF GANDHI NAGAR COMMUNITY HALL**



### Day 3 - (25.09.2016) – The day for “Education”

- On the final day, the students organized public awareness rally in and around Gandhi Nagar raising slogans related to anti-alcoholism, female illiteracy, child labour, conserving electricity, recycling plastics, rain water harvest, road safety rules. Students also emphasized the importance of hygiene, green and plastic free environment and planting tree saplings for the green and clean India mission.

#### PUBLIC AWARENESS RALLY EMPHASIZING IMPORTANCE OF LITERACY



## **SPORTS EVENTS CONDUCTED FOR VILLAGE CHILDRENS**

- In the evening, sports events such as Kabadi, running etc. were conducted for the village children to motivate them. Prizes were distributed to encourage the winners and runners.
- The village children enthusiastically participated and thoroughly enjoyed the event and made the event grant successful.

**At the end of the day, valedictory function was organized at Vallambar Samudaya Koodum, Amaravathipudur thanking the Panchayath President Mrs. PadikasuPonnazhagu and Vice President Mr. Karthikeyan for providing safe accommodation and helping hands to conduct the programme successfully.**



Babbage was so impressed with Lovelace's contributions; he dubbed her "The Enchantress of Numbers."

How did a young woman get the opportunity to show the world her talents in the 19th century? Mathematical intelligence was not the only thing Ada Lovelace had going for her. Her potential for intelligence probably came genetically, as she was the daughter of the poet Lord Byron and his first wife Anne Isabella Noel Byron. Both were privileged members of the aristocracy, and both were gifted and well educated. The marriage broke up shortly after Ada was born.

Lady Byron, who studied literature, science, philosophy, and, most unusual for a woman, mathematics, was determined that Ada not follow in her father's footsteps. Instead of art and literature, Ada was tutored in mathematics and science. Ada excelled in all her studies, and her interests were wide ranging. Ada became a baroness in 1835 when she married William King, 8th Baron King; the two had three children. In 1838, she became Countess of Lovelace when her husband was elevated to Earl of Lovelace. Her pedigree and peerage alone would have landed Lovelace in the history books, but her accomplishments in mathematics made her a pioneer of not only computing, but of women in science.

Lovelace died of cancer in 1852, when she was only 36. More than 150 years later, we remember her contributions to science and engineering in the celebration of Ada Lovelace Day on October 13. First celebrated in 2009 (in March), it is a day set aside to learn about women in science, technology, engineering, and mathematics and to create new role models for girls and women" in these fields.

**“Understand well as I may, my comprehension can only be an infinitesimal fraction of all I want to understand.**

# What's New..?

N.SivaranjaniMphil(cs)



## WEARABLE COMPUTER

- ✓ A small portable computer designed to be worn on the body during use.
- ✓ It is integrated into user clothes or attached to the body during.
- ✓ User is able to enter and execute commands wherever he is and also whenever he is in movement.
- ✓ Input can be given by gesture, speech, eye trackers, head trackers etc.
- ✓ Output may be presented through displays, lights, sound or even haptic interfaces (Touch screens).

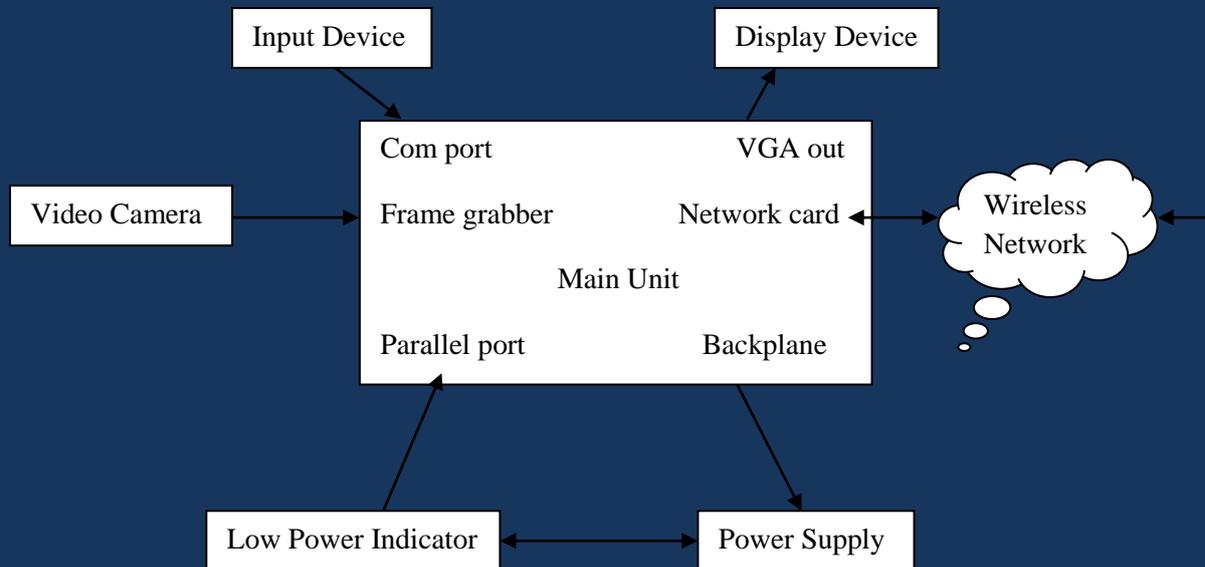
### **Advantages**

- ✓ Enhanced communication
- ✓ Flexibility
- ✓ Freedom
- ✓ Work from anywhere
- ✓ Convenience

### **Disadvantages**

- ✓ Expensive
- ✓ Lot of wiring
- ✓ Cause irritation in heat, side effects such as headaches.
- ✓ Data can be stolen / lost.

## Architecture of Wearable Computers



### How to use laptop?

- ✓ If you are using the laptop in your home, find an outlet and plug the charger.
- ✓ Place the bottom part of the laptop on the table/desk you are sitting in front of.
- ✓ Lift the lid to open up until the screen looks comfortable for you.
- ✓ Find the power button and turn it on.
- ✓ Wait for the laptop to boot up.
- ✓ Use the laptop's pointing device.
- ✓ Use the track pad's left click button as your primary mouse button.
- ✓ Use the track pad's right click button as the secondary mouse button.
- ✓ Locate your laptop's optical drive, if any.

## Living and Working With Your Laptop

- ✓ Add a wireless mouse to your laptop.
- ✓ Use your laptop in combination with another screen.
- ✓ You can use your laptop to play movies and show photos on your TV.
- ✓ Connect your laptop to speakers.
- ✓ Laptops can be used as desktops.

### **Warnings**

Back up your laptop regularly.

Keep an eye on your laptop at all times.

Don't spill stuff on your laptop!

Do not drop or subject your laptop to impacts while it is running.

## **SHORTCUT KEYS FOR WINDOWS 8**

- ✓ Windowskey+C -Displays charms menu
- ✓ Windowskey+I -Displays the setting menu for the current app
- ✓ Windowskey+Q -Brings up the apps search menu of installed program.
- ✓ Windowskey+H - Brings up the share menu for the current app.
- ✓ Windowskey+M- opens desktop mode and minimize all windows
- ✓ Windowskey+W-open universal search menu and sets it to search setting
- ✓ Windowskey+Y+F-Displays the universal search menu and sets it to search files.
- ✓ Windowskey+D-Activates desktop mode.
- ✓ Windowskey+R-opens run menu.
- ✓ Windowskey+E-opens file explorer to the "My computer"
- ✓ Windows key+(1-9)- Switch to desktop mode and make the nth app on the task bar.
- ✓ Windows key+(.)- Docks the current app.
- ✓ Windowskey+Z-Brings up app menu.whichshows contextual option for the active app.
- ✓ Windowskey+X-Brings up menu of advanced systems option.
- ✓ Windowskey+tab-Brings up the task switches.

# Python (programming language)

G. Muthukumar II MCA

Python is a widely used high-level programming language for general-purpose programming, created by Guido van Rossum and first released in 1991. An interpreted language, Python has a design philosophy which emphasizes code readability (notably using whitespace indentation to delimit code blocks rather than curly braces or keywords), and a syntax which allows programmers to express concepts in fewer lines of code than possible in languages such as C++ or Java. The language provides constructs intended to enable writing clear programs on both a small and large scale. Named after Monty Python, that's used by thousands of people to do things from testing microchips at Intel, to powering Instagram, to building video games with the PyGame library. It's small, very closely resembles the English language, and has hundreds of existing third-party libraries.

## Applications for Python

### Web and Internet Development

#### **Python offers many choices for web development:**

- Frameworks such as Django and Pyramid.
- Micro-frameworks such as Flask and Bottle.
- Advanced content management systems such as Plone

#### **Python's standard library supports many Internet protocols:**

- HTML and XML
- JSON
- E-mail processing.
- Support for FTP, IMAP, and other Internet protocols.
- Easy-to-use socket interface.

#### **And the Package Index has yet more libraries:**

- Requests, a powerful HTTP client library.
- BeautifulSoup, an HTML parser that can handle all sorts of oddball HTML.
- Feedparser for parsing RSS/Atom feeds.
- Paramiko, implementing the SSH2 protocol.
- Twisted Python, a framework for asynchronous network programming.

## Scientific and Numeric

Python is widely used in scientific and numeric computing:

- SciPy is a collection of packages for mathematics, science, and engineering.
- Pandas is a data analysis and modeling library.
- IPython is a powerful interactive shell that features easy editing and recording of a work session, and supports visualizations and parallel computing.
- The Software Carpentry Course teaches basic skills for scientific computing, running bootcamps and providing open-access teaching materials.

## Education

Python is a superb language for teaching programming, both at the introductory level and in more advanced courses.

- Books such as How to Think Like a Computer Scientist, Python Programming: An Introduction to Computer Science, and Practical Programming.
- The Education Special Interest Group is a good place to discuss teaching issues.

## Desktop GUIs

The Tk GUI library is included with most binary distributions of Python. Some toolkits that are usable on several platforms are available separately:

- wxWidgets
- Kivy, for writing multitouch applications.
- Qt via pyqt or pyside
- Platform-specific toolkits are also available:
- GTK+
- Microsoft Foundation Classes through the win32 extensions

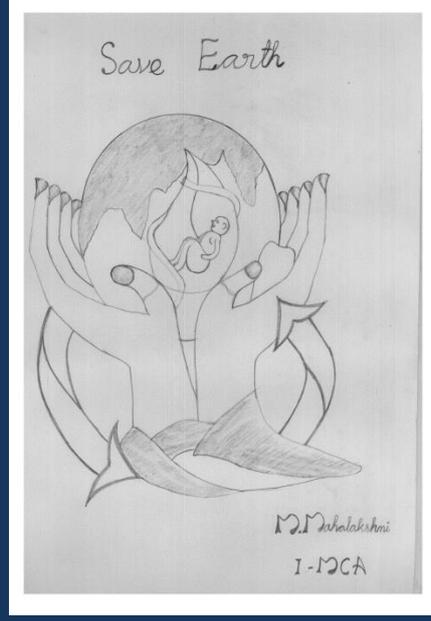
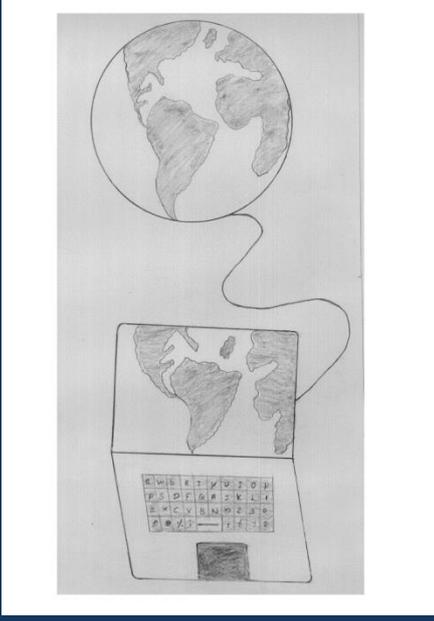
## Software Development

Python is often used as a support language for software developers, for build control and management, testing, and in many other ways.

- SCons for build control.
- Buildbot and Apache Gump for automated continuous compilation and testing.
- Roundup or Trac for bug tracking and project management.

# கணினி

Mahalakshmi 1<sup>st</sup>MCA



“நீரின்றி அமையாது உலகு” என்றான் வள்ளுவன். இன்றோ நீ (கணினி) இன்றி சிறு துரும்பும் அசையாது.

சமையல் முதல் சாட்லைட் வரை என் உள்ளங்கையில் கொடுத்தாய், சாமானியனுக்கு கூட சந்திரனில் நடப்பவற்றை தெளிவாக காட்டினாய். என்னே உன் சேவை.

பல களம் கண்ட என் மக்களை, உன் தளம் காண வைத்தாய் அதிலே மூழ்க வைத்தாய். வாய் பேச முடியாதவர்களுக்கு கூட வாழ்க்கை கொடுத்தாய் அவர்களை வாழவும் வைத்தாய்.

“கம்பன் வீட்டு கட்டுதறியும் கவிபாடும்” என்பார்கள் அன்றோ நீ இருந்திருந்தால் கம்பன் வீட்டில் “டங்காமாரி” ஒலித்திருக்கும்.

ரோமியோவும், ஜூலியட்டும் வாட்ஸ்\_அப்-ல் தன் காதலை பகிர்ந்திருப்பார்கள்.

மன்னர்கள் இ-மெயில் மூலம் ஓலை அனுப்பி இருப்பார்கள்.

“உன் விந்தை கண்டு வியக்காத நாளில்லை, கணினி என் போன்றவர்களுக்கு கண் நீ” உன் சேவை இளைஞர்களை வளர்ப்பதற்க்காக மட்டுமே தொடரட்டும்.....!



## கணினி

கடலுக்கு கூட எல்லை உண்டு, என் கணினியின்

கண்டுபிடிப்புகளுக்கு எல்லையே இல்லை.,

இக்கணம் மட்டுமல்ல, இனி வருங்காலமும் உன்னால்

மட்டும் தான் ஆள முடியும்.,

படைத்த இறைவன் கூட வியக்கிறான்

நான் படைத்த அனைத்தையும், அமர்ந்த இடத்திலேயே உன்னால் மட்டும்

காட்டமுடிகிறதே! என்று.,

சாப்பாடு கூட தேவையில்லை

உன் ஒரு "சாப்ட்வேர்" போதும்.

சரித்திரத்தில் மாற்றம் காண.,

கண் இன்றி கூட மனிதன் வாழ்ந்து விடுவான்

கணினி இன்றி சிறு துரும்பும் கூட அசையாது.

மா.சுரேகா. I- MCA

### செல்போன் மனிதர்கள்

எவரையோ? நினைத்து

எதிரில் இருப்பவர்களை மறந்து

செல்லாகும்,

செல்போன் மனிதர்கள்..!!

மா.சுரேகா. I- MCA

## உயிரற்ற இயந்திரம் .. உயிர்த்தோழனாய்...

நான்

உயிரற்ற இயந்திரம்

ஆனால்

மனித இனத்துக்கு நான்

உயிர்த்தோழன்..

அடி மட்டத்தில் இருந்த உலகத்தை

அறிவுக்களஞ்சியமாய்

மாற்றியவன் நான்..

ஆனால்

என் மீதோ எத்தனைக் குற்றச்சாட்டுகள்!

ஆறாவதாய் ஒரு அறிவு இருந்தும்

மனிதனுக்கு

என்னைப் பகுத்தறிய ஏன் தெரியவில்லை..?

நாட்டின் எல்லையில்...பறக்கும் விமானத்தில்...

மிதக்கும் கப்பலில்...ஓடும் இரயிலில்..

இன்னும் ,

எத்தனை எத்தனையோ துறைகளின் நான்...

ஆனால் உனக்கு தவறாகத் தெரிகிறேன் என்றால்

நீ என்னைக்கையாளும் முறை தவறு என அர்த்தம்..

நான் கண்ணாடியைப்போல் .

உன் எண்ணத்தைப் பிரதிபலிப்பவன்... எனவே

உன் எண்ணம் சரியானதாக இருக்க வேண்டும்...!!

கட்செவியும்,முகநூலும்,விளையாட்டு மென்பொருளும்

மட்டுமே நான்அல்ல...!!

முறையாகயோசித்து என்னைப் பயன்படுத்திக்கொள்...!!

-இப்படிக்கு

உன் உயிர்த்தோழன் (கணினி)

இராம.நவலட்சுமி.

# JOKES

Computer commands in Tamil

Save - vachiko

Save as – ayieaptiyevechiko

Save all -Ellathiumvechiko.

Drag & hold-NallAisthhpudi.

Do u want to delete selected item-maiyalumeathookidava.

Access-Kai vachakeesiduvu.

Find – Thedu.

Find Again-Innoruthadavathedu.

## Life Before the Computer

A memory was -some that you lost with age.

An application -was for employment.

A program -was a TV show.

A cursor- used profanity.

A keyboard -was a piano.

A web -was a spider's house.

A virus -was a flu.

A CD -was a bank account.

A hand drive- was a long trip on the load.

A mouse pad -was where a mouse lived and if you had a 3 1/2 inch.

Floppy-you just hoped nobody found out.

S.SUHIRTHA , I MCA

என் இனிய கணினியே.

இவ்வளவு நேரம் தொடர்ச்சியாக

நான்

யார் முகத்தையும் பார்த்ததில்லை.

இவ்வளவு நேரம் யாரோடும்

விரல் தீண்டல் தொடர்ந்ததில்லை.

அதெப்படி

உன்னால் மட்டும் முடிகிறது ?

கண்ணுக்குத் தெரியாத

கணிதச்சுருக்கங்களின் சுளுக்கெடுக்க ?

முகம் மனசின் கண்ணாடி

என்பது

முகமே கண்ணாடியாகிப்போன

உன்னிடம் தானே உண்மையாகிறது ?

பொழுதுகள் மாறினாலும்

முகங்கள் மாறினாலும்

விடைகளை மாற்ற மறுப்பது

நீ மட்டும் தானே.

நீ மட்டும் இல்லையென்றால்

உலகம் ஒருவேளை

காகிதக்கட்டுக்களில்

புதைக்கப்பட்டிருக்கலாம் !!!

நீ மட்டும் இல்லையென்றால்

உலகைப் பிடித்தெடுக்கும்

ஓர் வலை

உருவாகாமலேயே போயிருக்கலாம்.

நீ என்ன செய்வாய் என்று கேட்ட காலம்

போய்விட்டது.

என்ன செய்யமாட்டாய் என்கிறது

கலியுகம்.

யாரோ பகல் கனவு கண்டால்

அதை

பிரதி எடுத்துக் கொடுக்கிறாய்.

இரவுக் கனவை இரவல் வாங்கி

மென்பொருளாய் மொழிபெயர்க்கிறாய்.

இப்போதெல்லாம்

மனித மொழிகளுக்கிங்கே மரியாதை இல்லை

கணினி மொழிகளுக்குத் தான்

உலக அங்கீகாரம்.

என்ன..???

விரல்களால் பேசவேண்டும்

அது ஒன்று தான் வித்தியாசம் !!!

சில ஆண்டுகளுக்கு முன்பு

உலகம் உன்னை ஆண்டு கொண்டிருந்தது

இப்போது

நீ ஆட்சியைக் கைப்பற்றிவிட்டாய்.

மிட்டாய்க் கடைகளின்

இனிப்புக் கணக்குகள் கூட

நீ இல்லையென்றால் கசந்து போகிறது.

ஏனென்றால்

எங்கள் மூளைக்குச் செல்லும்

முக்கால்வாசி நரம்புகளும்

விரலுக்கும் விழிகளுக்குமாய்

இடம் பெயர்ந்துவிட்டது.

எங்கள் மானிடசமூகம்

வைரஸ் வினியோகம் செய்வது,

நோய் தருவதும் மருந்து தருவதும்

நாங்கள் என்பதை

நீ

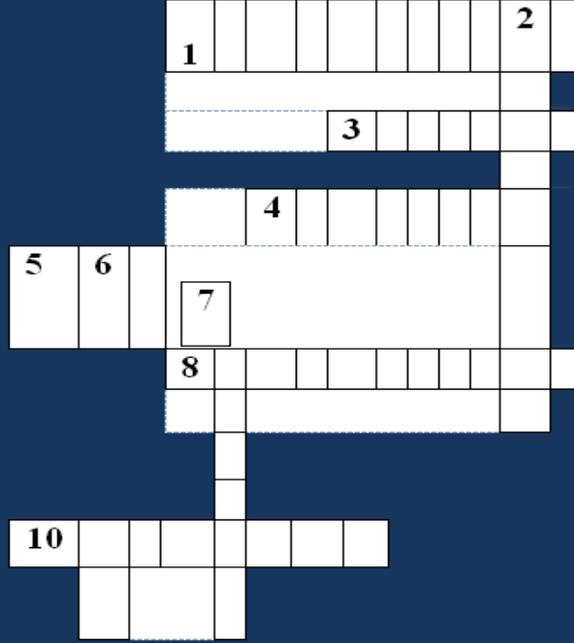
மறந்து விடாமல் இருக்கத்தான்.

காலம் மாறி விட்டது

முன்பு கலப்பை இருந்த இடத்தில்  
இப்போது கணிப்பொறி.  
முன்பு வரப்புகள் இருந்த இடத்தில்  
இப்போது வன்பொருள்கள்.  
ஆனாலும் எங்கள் வயிறு  
இன்னும்  
மென்பொருள் தின்னப் பழக வில்லை.

பிரியதர்ஷினி., I MCA

## CROSS WORD



### Across:

1. It is a magnetic storage disk.
3. It is used to copy and save the files on the computer.
4. It is an input device often used to control video games.
5. It is the brain of the computer.
8. It is the main circuit board of a Computer.

9. It is a small device used to point and select items on Computer screen.

10. It is used to input text in your computer.

Down:

2. They are used to play sound.

6. It transfers data from a computer to a paper.

7. It displays information in various forms using text and graphics.

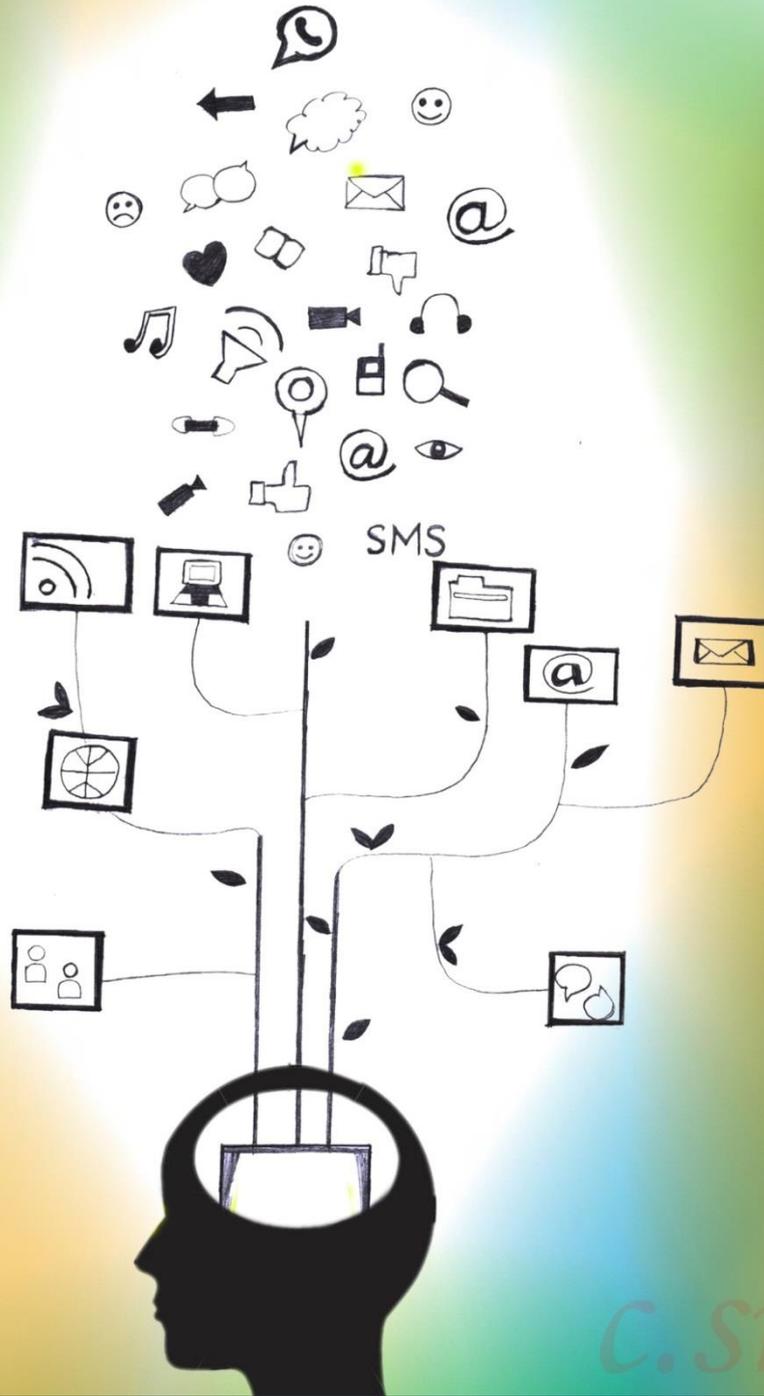
9. To connect the computer to internet we need

Answers:-

1. Floppydisk 2. Speakers 3. Scanner 4. Joystick 5. CPU 6. Printer 7. Monitor  
8. Motherboard 9. Modem 10. Keyboard



Vallal Dr. RM. Alagappa Chettiar



C.S.M