

Flowchart & Introduction to LMS, VUES & AIUB website

Course Code: CSC 1101

Course Title: Introduction to Computer Studies



Dept. of Computer Science
Faculty of Science and Technology

Lecturer No:	03	Week No:		Semester:	Spring 21-22
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Lecture Outline



- ❖ List of topics,
 - Flow chart
 - IT Essentials-Chapter 2
 - Introduction to VUES and AIUB website
 - Introduction to Learning System Management

Specific Objectives



Will have a discussion on,

- ✓ What is flowchart?
- ✓ Basic symbols of flowchart
- ✓ Flowchart rules
- ✓ Developing flowchart
- ✓ Advantages of flowchart
- ✓ Introduction to VUES and AIUB website
- ✓ What is Learning System Management(LMS)
- ✓ Significance of LMS

Flow Chart

What is flow chart?



- *Flowchart* is a pictorial representation of an algorithm
- Uses symbols (boxes of different shapes) that have standardized meanings to denote different types of instructions
- Actual instructions are written within the boxes
- Boxes are connected by solid lines having arrow marks to indicate the exact sequence in which the instructions are to be executed
- Process of drawing a flowchart for an algorithm is called *flowcharting*

Flowchart

Basic flowchart symbols



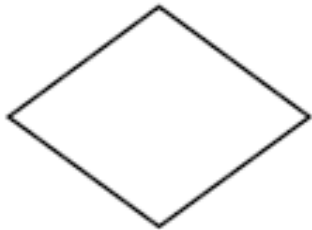
Terminal



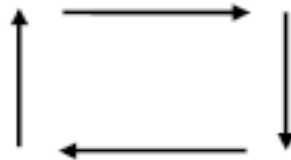
Input/Output



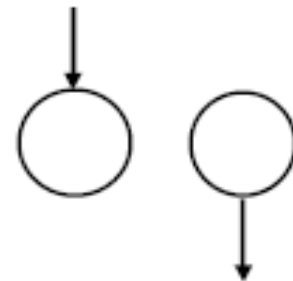
Processing



Decision



Flow lines



Connectors

Flowchart

Rules



- First chart the main line of logic, then incorporate detail
- Maintain a consistent level of detail for a given flowchart
- Do not chart every detail of the program. A reader who is interested in greater details can refer to the program itself
- Words in the flowchart symbols should be common statements and easy to understand

Flowchart

Rules



- Be consistent in using names and variables in the flowchart
- Go from left to right and top to bottom in constructing flowcharts
- Keep the flowchart as simple as possible. Crossing of flow lines should be avoided as far as practicable
- If a new flowcharting page is needed, it is recommended that the flowchart be broken at an input or output point.
- Properly labeled connectors should be used to link the portions of the flowchart on different pages

Flowchart

Example

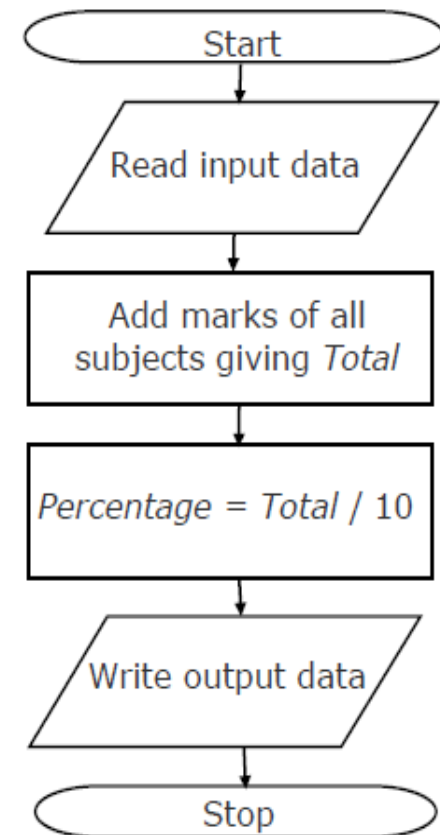


A student appears in an examination, which consists of total 10 subjects, each subject having maximum marks of 100.

The roll number of the student, his/her name, and the marks obtained by him/her in various subjects are supplied as input data.

Such a collection of related data items, which is treated as a unit is known as a record.

Draw a flowchart to calculate the Percentage marks obtained by the Student in this examination and Then to print it along with his/her roll number and name

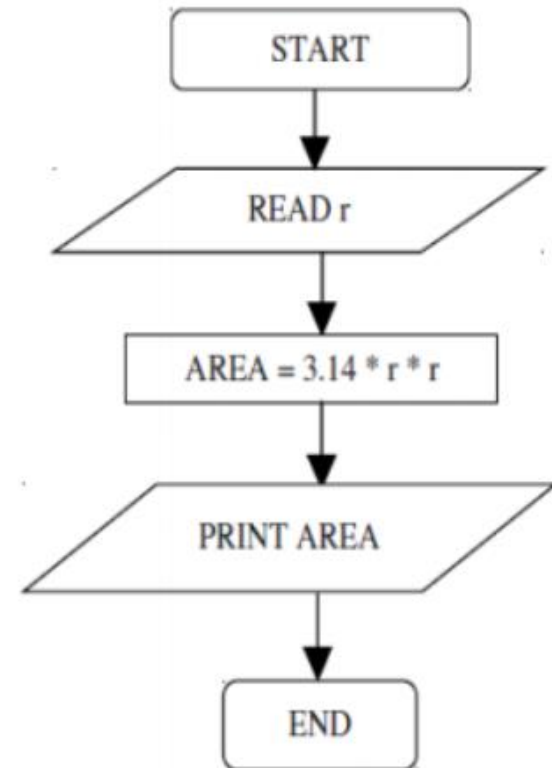


Flowchart

Example



Calculate the area of circle

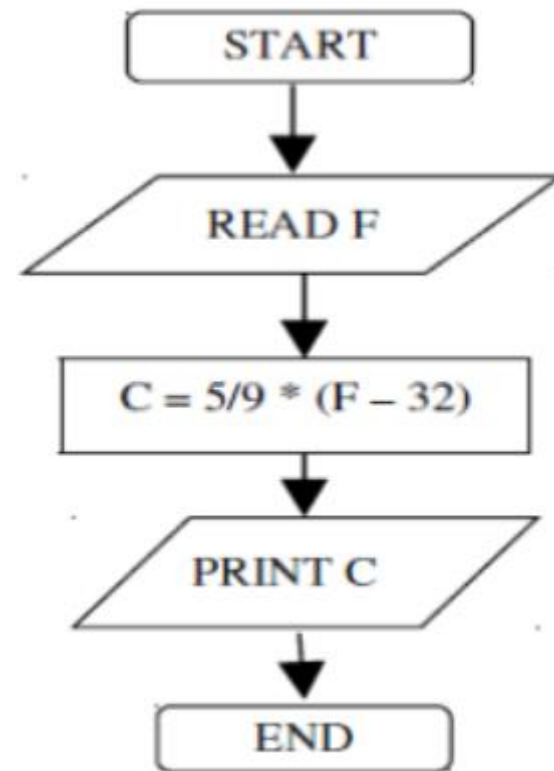


Flowchart

Example



Convert Fahrenheit to Celsius

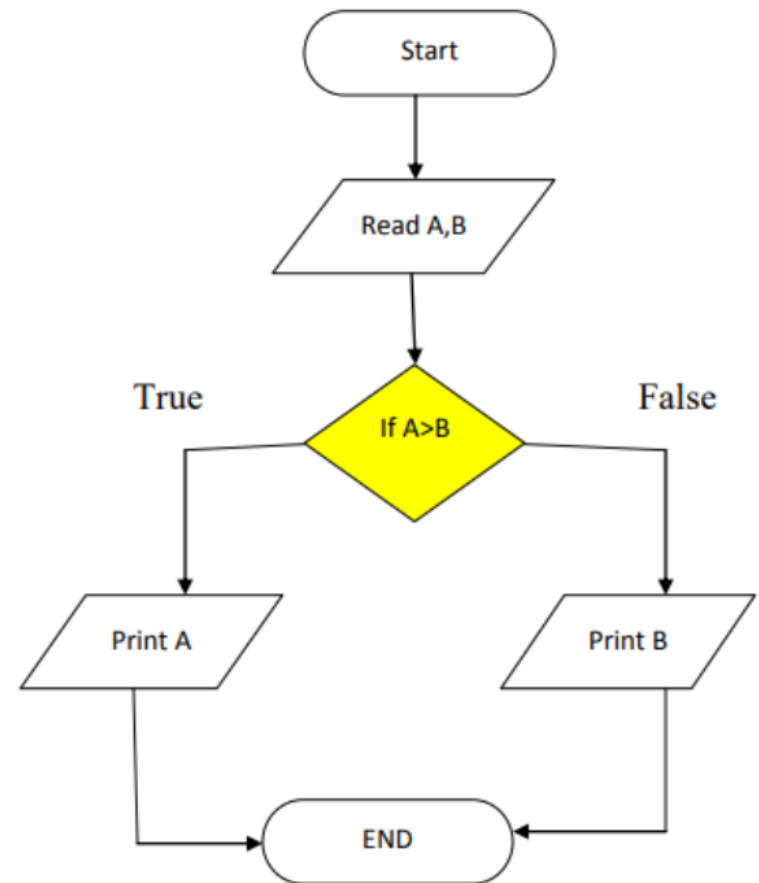


Flowchart

Example



Find the larger number



Flowchart

Significance of flowchart



Advantages of Flowchart-

- ✓ Proper program documentation
- ✓ Efficient Coding
- ✓ Systematic testing
- ✓ Systematic debugging
- ✓ Better communication

IT Essentials

Chapter 2



- The module is available on CISCO account.

Introduction to AIUB website and VUES

AIUB website



- Here is the link of AIUB official website, <https://www.aiub.edu/>

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Internationally and Locally Accredited Academic Programs

IAB: BArch
IEB: BSc in CoE & EEE
PAASCU: BBA, MBA, EMBA, BSc in CIS, CS, CSE, CSSE, SE, EEE

*All academic programs are government recognized and approved by UGC

AIUB Continuing Education Center (CEC)

Tuition Fee

Academic Calendar

AIUB Library

News & Events

Notices

24 Apr 2020 Letter from the Vice Chancellor and Survey for Summer 2019-2020

19 Mar 2020 Admission Exam Final Result of Summer 2019-20, Slot 1 and Schedule of Admission-Registration

19 Mar 2020 Contact Email Addresses of the Faculties

24 Mar 2020 GUIDELINE FROM DEPARTMENT OF PUBLIC HEALTH, AIUB AND HELPLINE

Introduction to AIUB website and VUES

VUES



VUES-Virtual University Expert System

Here is the link of sign-in page of AIUB Portal-

<https://portal.aiub.edu/>



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Sign in with your organizational id number.

Log In

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Introduction to Learning Management System



Learning Management System is a Web-based application for-

- Administration
- Documentation
- Delivery of educational course contents
- Sharing information between individuals
- Training programs

Introduction to Learning Management System



- Learning Management Systems are being extensively used in schools, colleges, universities and in different kind of organizations.
- Management of users, roles, courses, instructors, facilities and generating reports becomes easier.
- LMS provides the flexibility to access it from their workplace or home. Authorized individuals have 24/7 access to this unique system through URL or through a unique User ID and Password.



Books & Links

- i. <http://www.yspuniversity.ac.in/cic/algorithm-manual.pdf>
- ii. <https://creately.com/blog/diagrams/flowchart-guide-flowchart-tutorial/>
- iii. http://mycsvtunotes.weebly.com/uploads/1/0/1/7/10174835/computer_fundamental_complete-i.pdf



References

- i. <https://www.lynda.com/Moodle-tutorials/Introduction-learning-management-systems/578069/632144-4.html>
- ii. <https://www.gc-solutions.net/resources/articles/introduction-to-learning-management-systems.html>