



**MATS CENTRE FOR DISTANCE AND ONLINE EDUCATION
(MCDOE)**

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**Assignment Work
Session: July 2025-26**

Max Marks – 30

Min Marks-12

Name of Programme: DCA_I

Programme Code:

Name of Course: Programming Fundamentals

Course Code:

Name of Learner:

Enrollment Number:

Mobile Number:

Email ID:

Address:

Centre: MCDOE

Instruction to Submit Assignment

- All assignments should be completed and submitted at MCODE study centre before the due date.
- All the Assignment should be written by the learners, in some aspects print out of the assignment will also be accepted.
- The date of submission will be provided by the programme coordinator.
- The assignments constitute the continuous component of the evaluation process and have 30% weightage in the final grading. The students need to score minimum marks as per Examination Scheme of particular programme in the assignments of each course in order to clear the continuous evaluation component.
- Without submission of the assignment learners are not allowed to appear in the term end examination.
- Assignments should be brief, precise and in your own words. Please do not copy the answers from the study material.
- You may retain a copy of your assignment response to avoid any unforeseen situation.

Attempt all questions. All questions carry equal marks. (5*3)

1. Define a computer program. What are the steps involved in program development?
2. What is an algorithm? Write an algorithm to find the largest of two numbers.
3. Explain variables and data types with examples.
4. What are conditional statements? Write the syntax of if-else.
5. Explain the concept of loops. Give one example of a for loop.

Attempt all questions. All questions carry equal marks. (3*5)

1. Explain the different stages of the programming life cycle with a neat diagram.
2. Describe the various types of operators in programming with examples.
3. What is flowcharting? Draw a flowchart to check whether a number is even or odd.