- 1. Set of instructions to be provided to an electronic machine to perform a task is called
 - a) Programming
 - b) Processing
 - c) Computing
 - d) Compiling

Solution: (a) Programming is the process of creating a set of instructions that tell a computer how to perform a task.

- 2. Compiler helps in the translation from
 - a) Integer to binary
 - b) High-level program to binary digits
 - c) High-level language to machine level language
 - d) Pseudo code to computer program

Solution: (c) Compiler helps in translating from high-level language to machine level language

- 3. The ALU unit of computer
 - a) Can perform logical operation only
 - b) Can perform arithmetic operation only
 - c) Can perform both arithmetic and logical operations
 - d) None of the above.

Solutions: (c) Can perform both arithmetic and logical operations

- 4. What type of device is computer printer?
 - a) Memory
 - b) Output
 - c) Storage
 - d) Input

Solution: (b) Output

- 5. Algorithm is
 - a) A process or set of rules to be followed in calculations or other problem-solving operations, especially by a human.
 - b) A process or set of rules to be followed to solve numerical problems only.
 - c) A process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer.

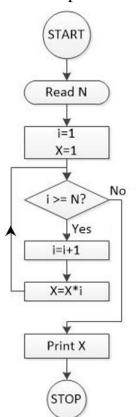
d) A process or set of rules to be followed to solve logical problems only.

Solution: (c) A process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer

- 6. When we write X=10 and Y=X, which of the following memory assignment is correct
 - a) X and Y will have same location and 10 will be stored.
 - b) X and Y will have two distinct locations and 10 will be stored in both.
 - c) X and Y will have same location and only X will contain value 10
 - d) X and Y will have two distinct locations and only X will contain value 10

Solution: (b) X=10 will create a memory location for X and 10 will be stored. After declaring Y=X, a new memory location for Y will be created and the value of X will be copied in Y. This both of them will contain 10.

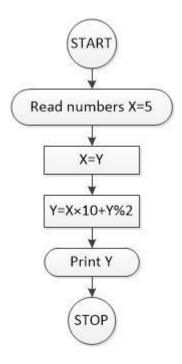
7. The input N from the user is 6. The output of the following algorithm is



- a) 21
- b) 720
- c) 1
- d) 2

Solution: (c) The condition "i>=N" fails in the first iteration because i=1 and N=6. Thus, the execution jumps directly to the print command. The initial assigned value of X will be printed which is 1.

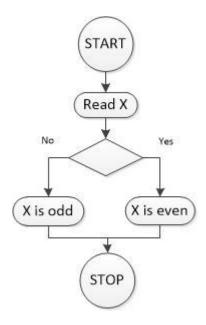
8. What will be the output of the algorithm given below?



- a) 51
- b) 52
- c) 50
- d) Compilation error

Solution: (d) The assignment X=Y is incorrect. "Equals to" is a right to left assignment. The variable Y is not declared before assignment. Thus the compiler will throw an error at this step.

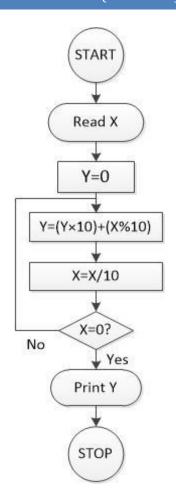
9. The following algorithm is used to find a number X is even or odd. What will be the content of the empty box?



- a) X%10=0?
- b) X/10=0?
- c) X/2=0?
- d) X%2=0?

Solution: (d) To find whether a number is odd or even, the number has to be divided by 2. If it is equals to zero, then the number is even. Thus, X%2=0? Condition is appropriate.

10. X is an integer (X=2648). The print value of Y of the flowchart below is



- a) 20
- b) 22664488
- c) 8462
- d) 0

Solution: (c) The algorithm finds the reverse of the number X. Hence, the output is 8462