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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Problem Solving Through Programming In C (course)



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## Course outline

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 ()

- Lecture 1 :  
Introduction  
(unit?  
unit=17&less  
n=18)
- Lecture 2: Idea  
of Algorithms  
(unit?)

# Week 1 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-08-09, 23:59 IST.

Assignment submitted on 2023-07-24, 09:44 IST

1) What type of device is computer webcam?

1 point

- ☐ a) Memory
- ☐ b) Output
- ☐ c) Storage
- ☒ d) Input

Yes, the answer is correct.

Score: 1

Accepted Answers:

d) Input

2) Set of instructions to be provided to an electronic machine to perform a task is called

1 point

- ☒ a) Programming
- ☐ b) Processing
- ☐ c) Computing
- ☐ d) Compiling

Yes, the answer is correct.

Score: 1

Accepted Answers:

a) Programming

3) Which of the following language does the computer understand?

1 point



unit=17&lesson=19)

● Lecture 3:  
Flow Chart  
and  
Pseudocode  
(unit?  
unit=17&lesson=20)

● Some  
corrections in  
Lecture 3  
(unit?  
unit=17&lesson=21)

● Lecture 4 :  
Introduction to  
Programming  
Language  
Concepts  
(unit?  
unit=17&lesson=22)

● Lecture 5 :  
Variables and  
Memory (unit?  
unit=17&lesson=23)

● Quiz: Week 1  
: Assignment  
1  
(assessment?  
name=219)

● Feedback  
Form of Week  
1 (unit?  
unit=17&lesson=25)

○ Assignment 1  
Solution (unit?  
unit=17&lesson=26)

**Week 2 ()**

**Week 3 ()**

**Week 4 ()**

**Week 5 ()**

- ☐ a) Computer understands only C Language  
☐ b) Computer understands only Assembly Language  
☒ c) Computer understands only Binary Language  
☐ d) Computer understands only BASIC

Yes, the answer is correct.

Score: 1

Accepted Answers:

c) *Computer understands only Binary Language*

4) Which of the following is known as the language made up of binary-coded instructions? **1 point**

- ☐ a) High level  
☐ b) BASIC  
☐ c) C  
☒ d) Machine

Yes, the answer is correct.

Score: 1

Accepted Answers:

d) *Machine*

5) Algorithm is-

**1 point**

- ☐ 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 in to solve logical problems only.

Yes, the answer is correct.

Score: 1

Accepted Answers:

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

6) A 2D diagram to represent the steps to be followed to solve a problem is known as **1 point**

- ☒ a) Flow-chart  
☐ b) Pseudo-code  
☐ c) Both (a) and (b)  
☐ d) None of these

Yes, the answer is correct.

Score: 1

Accepted Answers:

a) *Flow-chart*

7) Which one of the following statement is the most appropriate?

**1 point**

- ☐ a) Pseudo code is basically a diagrammatic representation of the algorithm. Whereas flowchart normal English language is translated into the programming languages to be

**Week 6 ()****Week 7 ()****Week 8 ()****DOWNLOAD  
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Session -  
July 2023 ()**

worked on.

- ☐ b) Flowchart is diagrammatic representation of the algorithm. Pseudo code is just another name of algorithm.
- ☐ c) Pseudo code is another name of programming. Whereas in flowchart is diagrammatic representation of algorithm.
- ☒ d) Flowchart is basically a diagrammatic representation of the algorithm. Whereas in pseudo code normal English language is translated into the programming languages to be worked on.

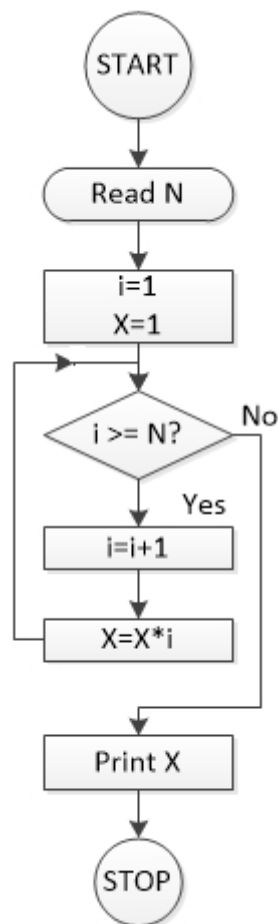
Yes, the answer is correct.

Score: 1

Accepted Answers:

d) Flowchart is basically a diagrammatic representation of the algorithm. Whereas in pseudo code normal English language is translated into the programming languages to be worked on.

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

**1 point**

- ☐ a) 21
- ☐ b) 720
- ☐ c) 1
- ☒ d) 1024

No, the answer is incorrect.

Score: 0

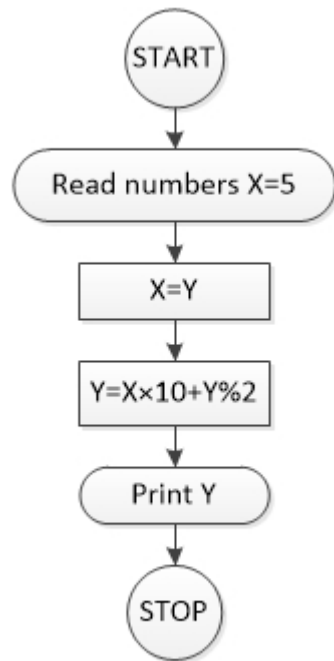
Accepted Answers:

c) 1



9) What will be the output of the algorithm given below?

1 point



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

Yes, the answer is correct.

Score: 1

Accepted Answers:

d) *Compilation error*

10) The section of the CPU that selects, interprets and sees to the execution of program instructions **1 point**

- ☐ a) Memory
- ☐ b) Register Unit
- ☒ c) Control Unit
- ☐ d) ALU

Yes, the answer is correct.

Score: 1

Accepted Answers:

c) *Control Unit*

