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sec20it093@sairamtap.edu.in ▾

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&lesso
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, 10:30 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&less
n=19)

☐ Lecture 3:
Flow Chart
and
Pseudocode
(unit?
unit=17&less
n=20)

☐ Some
corrections in
Lecture 3
(unit?
unit=17&less
n=21)

☐ Lecture 4 :
Introduction
to
Programming
Language
Concepts
(unit?
unit=17&less
n=22)

☐ Lecture 5 :
Variables and
Memory
(unit?
unit=17&less
n=23)

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

☐ Feedback
Form of Week
1 (unit?
unit=17&less
n=25)

☐ Assignment 1
Solution (unit?
unit=17&less
n=26)

Week 2 ()

Week 3 ()

Week 4 ()

- ☐ 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 in flowchart normal English language is translated into the programming languages to be

Week 5 ()**Week 6 ()****Week 7 ()****Week 8 ()****DOWNLOAD
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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.

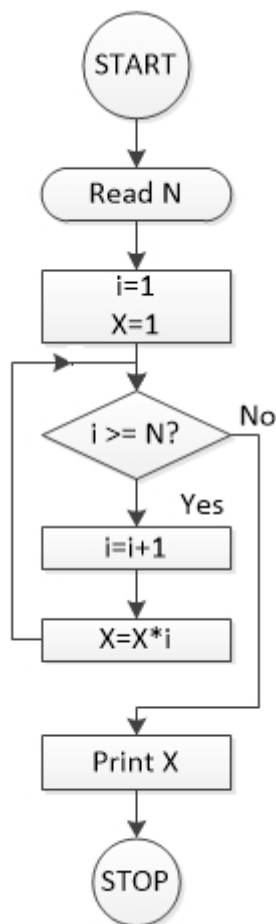
Yes, the answer is correct.

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

Yes, the answer is correct.

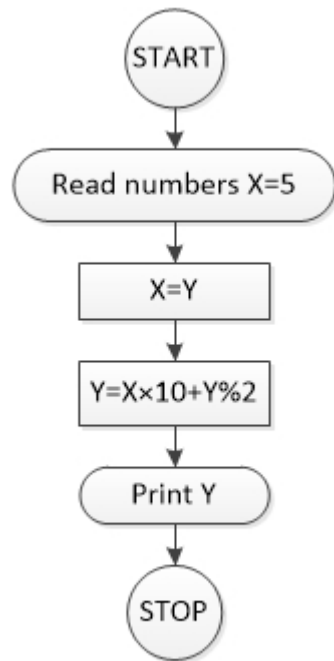
Score: 1

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

No, the answer is incorrect.

Score: 0

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*