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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Problem solving through Programming In C (course)**[Announcements \(announcements\)](#) **About the Course** (https://swayam.gov.in/nd1_noc20_cs06/preview)[Ask a Question \(forum\)](#) [Progress \(student/home\)](#) [Mentor \(student/mentor\)](#)

Unit 4 - Week 2

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

● Lecture 6 :
Types of
Software and
Compilers (unit?
unit=3&lesson=20)

● Lecture 7:
Introduction to C
Programming
Language (unit?
unit=3&lesson=21)

● Lecture 8 :
Variables and
Variable Types
in C (unit?
unit=3&lesson=22)

● Lecture 9 :
Introducing
Functions (unit?
unit=3&lesson=23)

Assignment 2

The due date for submitting this assignment has passed. **Due on 2020-02-12, 23:59 IST.**
As per our records you have not submitted this assignment.

1) Which of the following is not a C variable?

1 point

- ☐ a) Count123
- ☐ b) Count_123
- ☐ c) Count@123
- ☐ d) X_123_Count

No, the answer is incorrect.
Score: 0

Accepted Answers:

c) *Count@123*

2) A function

1 point

- ☐ a) is a block of statements to perform some specific task
- ☐ b) is a fundamental modular unit to perform some task
- ☐ c) has a name and can be used multiple times
- ☐ d) All the above options are true

No, the answer is incorrect.
Score: 0

Accepted Answers:

d) *All the above options are true*

3) Which of the following statement is correct?

1 point

- ☐ a) System software is dependent on application software.
- ☐ b) Application software is dependent on system software.
- ☐ c) Both are independent of each other.

● Lecture 10 :
Address and
Content of
Variables and
Types (unit?
unit=3&lesson=24)

○ Quiz :
Assignment 2
(assessment?
name=94)

○ Feedback For
Week 2 (unit?
unit=3&lesson=97)

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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**Assignment
Solution**

☐ d) None of the above.

No, the answer is incorrect.
Score: 0

Accepted Answers:

b) Application software is dependent on system software.

4) Syntax error occurs when

1 point

- ☐ a) The rules of grammar of the programming language is violated
- ☐ b) The statements in the program have no meaning
- ☐ c) The program gives wrong or undesired output
- ☐ d) Some illegal operation(e.g. divide by zero) is done

No, the answer is incorrect.
Score: 0

Accepted Answers:

a) The rules of grammar of the programming language is violated

5) If integer needs two bytes of storage, then the minimum value of a signed integer in C would be

1 point

- ☐ a) $-(2^{16} - 1)$
- ☐ b) 0
- ☐ c) $-(2^{15} - 1)$
- ☐ d) -2^{15}

No, the answer is incorrect.
Score: 0

Accepted Answers:

d) -2^{15}

6) Which of the following statement is correct?

1 point

- I. Keywords are those words whose meaning is already defined by Compiler.
- II. Keywords cannot be used as variable name.
- III. There are 32 keywords in C.
- IV. C keywords are also called as reserved words.

- ☐ a) I and II
- ☐ b) II and III
- ☐ c) I, II and IV
- ☐ d) All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:

d) All of the above

7) What is the output?

1 point

```
#include<stdio.h>
#define fun(x) (x*x)
int main()
{
    float i;
    i = 64.0/fun(2);
    printf("%.2f", i);
    return 0;
}
```

- ☐ a) 8.00
- ☐ b) 4.00
- ☐ c) 0.00
- ☐ d) 16.00

No, the answer is incorrect.
Score: 0

Accepted Answers:
d) 16.00

8) What will be the output?

1 point

```
#include <stdio.h>
int main()
{
    float a = 6.0;
    printf("%.2f", (9/5)*a + 11);
    return 0;
}
```

- ☐ a) 21.00
- ☐ b) 19.00
- ☐ c) 0.00
- ☐ d) 17.00

No, the answer is incorrect.
Score: 0

Accepted Answers:
d) 17.00

9)

1 point

The following C program converts the temperature from Celsius (C) to Fahrenheit (F). Fill the blanks with the proper formula to do it.

```
#include <stdio.h>
int main()
{
    float C = 37.5, F;
    F = _____;
    printf("%.2f", F);
    return 0;
}
```

- ☐ a) $1.8 * C + 32$
- ☐ b) $1.8 * (C + 32)$
- ☐ c) $1.8 * C - 32$
- ☐ d) $C / 1.8 + 32$

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) $1.8 * C + 32$

10)

1 point

The following C program swaps the value of two numbers without using any third variable. What will be the correct option to fill up the blank?

```
#include <stdio.h>
int main()
{
    int a=2, b=3;
    printf("The values before swapping a = %d, b=%d", a, b);

    _____

    printf("The values after swapping a = %d, b=%d", a, b);
    return 0;
}
```

- ☐ a) $a=a-b; b=a-b; a=a+b;$
- ☐ b) $a=a\%b; b=a+b; a=a/b;$
- ☐ c) $a=a+b; b=a-b; a=a-b;$
- ☐ d) None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) $a=a+b; b=a-b; a=a-b;$

