



NPTEL

singh.santosh2702@gmail.com ▼

Courses » Problem Solving through Programming in C

Announcements

Course

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Unit 3 - Week 2

Course outline

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Week 2

- Lecture 6 :
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- Lecture 7:
Introduction to
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in C
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Week 3

Assignment 2

Due date for this assignment: 2018-08-15, 23:59 IST.

- 1) Operating system is an example of **1 point**
- ☒ System Software
 - ☐ Application software
 - ☐ Programming software
 - ☐ None of the above
- 2) C language is an example of **1 point**
- ☐ Machine level language
 - ☒ Low level language
 - ☐ High-level language
 - ☐ Medium-level language
- 3) Which of the following is not a correct variable type in C? **1 point**
- ☐ int
 - ☐ float
 - ☒ real
 - ☐ double
- 4) Which of the following is not a C variable? **1 point**
- ☐ Count123
 - ☐ Count_123
 - ☒ Count@123
 - ☐ X_123_Count
- 5) Which of the following statement is correct? **1 point**
- ☐ System software is dependent on application software
 - ☐ Application software is dependent on system software
 - ☒ Both are independent of each other
 - ☐ None of the above.

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6) What is operating system?

1 point

- ☐ collection of programs to manage hardware resources
- ☐ system service provider to the application programs
- ☐ link to interface the hardware and application programs
- ☒ all of the above

7) Syntax error occurs when

1 point

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

8) The ratio of the memory allocated to int, float and char variable in C is

1 point

- ☒ 1:2:1
- ☐ 2:3:1
- ☐ 2:1:4
- ☐ 2:4:1

9) If integer needs two bytes of storage, then the minimum value of a signed integer in C would be 1 point

- ☐ $-(2^{16} - 1)$
- ☐ 0
- ☒ $-(2^{15} - 1)$
- ☐ -2^{15}

10) Character literals in C syntax are?

1 point

- ☐ C
- ☐ 'C'
- ☒ "C"
- ☐ None

11) The output of the program is

1 point

```
#include<stdio.h>
main()
{
    int a=10; b=15; c=20;
    c=a+b;
    printf("%d",c);
}
```

- ☒ 25
- ☐ 20
- ☐ 10
- ☐ Compilation error

12) The name of the variable used in one function can also be used in another function 1 point

- ☐ True

- ☒ False
- ☐ May be
- ☐ None of the mentioned

13. What is the output of the following program?

1 point

```
#include<stdio.h>
main()
{
    int a=10, b;
    b=a/3;
    printf("%f", b);
}
```

- ☐ 3.000000
- ☐ 1
- ☐ 0.000000
- ☒ Compilation error

14. What is the output of the following program?

1 point

```
#include <stdio.h>
#define a 5
main()
{
    int a=2, b=3;
    a=a+b;
    b=a-b;
    a=a-b;
    printf("%d, %d", a, b);
}
```

- ☐ 2,3
- ☒ 3,2
- ☐ 5,2
- ☐ Compilation error

15)

1 point

. What is the output of the following program? (Assuming that the program is run on a 32-bit system)

```
#include<stdio.h>
int main()
{
    char a='a';
    a=a+3;
    printf("%c", a);
}
```

- ☐ a
- ☐ 100
- ☐ d
- ☐ Compilation error

16 What is the output of the following C code? 1 point

```
#include <stdio.h>
main()
{
    int var = 010;
    var=var+10;
    printf("%d", var);
}
```

- ☐ 10
- ☐ 20
- ☐ 18
- ☐ Compiler error

17 What will be the output? 1 point
[N.B.: .2f is used for printing floating point value with 2 decimal places]

```
#include <stdio.h>
int main()
{
    float a = 5.0;
    printf("The output is %.2f", (7/5)*a + 12);
    return 0;
}
```

- ☐ The output is 19.00
- ☐ The output is 12.00
- ☐ The output is 0.00
- ☐ The output is 17.00

18 Which data type is most suitable for storing a number 56432 in a 32 bit gcc compiler? 1 point

- ☐ int
- ☐ short int
- ☐ unsigned short int
- ☐ double

19 We use the concept of function for the following reason 1 point

- ☐ To use divide and conquer strategy
- ☐ For code reusability
- ☐ Enhances the logical clarity of the program
- ☐ All of the above

20 A function is 1 point

- ☐ Block of statements to perform some specific task
- ☐ It is a fundamental modular unit to perform some task
- ☐ It has a name and can be used multiple times
- ☐ All of the above

You may submit any number of times before the due date. The final submission will be considered for grading.

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