

**Courses » Problem Solving through Programming in C**[Announcements](#) [Course](#) [Ask a Question](#) [Progress](#) [Mentor](#) [FAQ](#)

Unit 5 - Week 4

Course outline

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Week 1

Week 2

Week 3

Week 4

- ☐ Lecture 16: IF-ELSE Statement (Contd.)
- ☐ Lecture 17: Switch statement
- ☐ Lecture 18: Switch Statement (Contd.) and Introduction to Loops
- ☐ Lecture 19: Implementing Repetitions (Loops)
- ☐ Lecture 20: Implementation of Loops with for Statement (Contd.)
- ☐ Feedback for Week 4

Assignment 4

Due date for this assignment: 2018-09-06, 23:59 IST.

Assignment 4

1) The control/conditional statements used in C is/are 1 point

- ☐ if-else statements
- ☐ switch statements
- ☐ Both (a) and (b)
- ☐ None of these

2) What is the other statement that can avoid multiple nested if conditions? 1 point

- ☐ Functions
- ☐ Switch statements
- ☐ If-else statements with 'break'
- ☐ Loop statements

3) In the following example, tell which statement is correct? 1 point

if ((Condition1==1) && (Condition2==1))
printf("hallelujah");

- ☐ Condition1 will be evaluated first, Condition2 will be evaluated second
- ☐ Condition2 will be evaluated first, Condition1 will be evaluated second
- ☐ Condition1 will be evaluated first, Condition2 will be evaluated only if Condition1 is TRUE
- ☐ Condition2 will be evaluated first, Condition1 will be evaluated only if Condition2 is TRUE

☐ Quiz :
Assignment 4

☐ Week-4
Program-1

☐ Week-4
Program-2

☐ Week-4
Program-3

☐ Week-4
Program-4

☐ Week-4
Problem-5

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**Assignment
Solution**

4) What will be the output?

1 point

```
#include <stdio.h>
int main()
{
    int x = -0.5;
    if (!x)
        printf("hello");
    return 0;
}
```

- ☐ Hello
- ☐ Compilation error
- ☐ Nothing will be displayed
- ☐ Compiler dependent

5) Which statement is correct?

1 point

- ☐ Switch case can only be used with 'int'
- ☐ Switch case can only be used with 'char'
- ☐ Switch case can be used with all data type
- ☐ Switch case can only be used with 'int' and 'char'

6) What is the output of the following C code?

1 point

```
#include <stdio.h>
int main()
{
    int x = 0;
    if (x == 1)
        if (x >= 0)
            printf("true\n");
        else
            printf("false\n");
    return 0;
}
```

- ☐ true
- ☐ false
- ☐ Depends on computer
- ☐ Nothing is printed

7) Which of the following statement is equivalent to

1 point

$x = a++ * b;$

- ☐ $a = a + 1;$
 $x = x * b;$
- ☐ $x = a * b;$
 $a = a + 1;$
- ☐ $x = a * b;$
 $x = x + 1;$
- ☐ None

8) Which of the following statement is equivalent to

1 point

`x = --a * b;`

- ☐ `a=a-1;`
`x=a*b;`
- ☐ `x=a*b;`
`a=a-1;`
- ☐ `x=a*b;`
- ☐ None

9) What will be the values of a, b, c after the execution of the followings?

1 point

`int a=2, b=3, c=0;`
`c += --a * b++;`

- ☐ `a=3, b=9, c=4`
- ☐ `a=1, b=3, c=6`
- ☐ `a=1, b=4, c=6`
- ☐ `a=1, b=4, c=3`

10) What will be the values of a, b, c after the execution of the following?

1 point

`int a=20, b=5, c=2;`
`c /= ++a * --b;`

- ☐ `a=21, b=4, c=0;`
- ☐ `a=20, b=4, c=2;`
- ☐ `a=20, b=5, c=0;`
- ☐ `a=21, b=5, c=0;`

11) What will be the printed value of digit of the following program?

1 point

```
#include <stdio.h>
main()
{
    int digit=0;
    while (digit<=9)
        digit++;
    printf("%d", digit);
}
```

- ☐ 1
- ☐ 0
- ☐ 10
- ☐ 9

12) The loop which is executed at least one is

1 point

- ☐ while
- ☐ do-while
- ☐ for
- ☐ none of the above

13) while(1) is used in a program to create

1 point

- ☐ False statement

- ☐ Infinite loop
- ☐ Terminating the loop
- ☐ Never executed loop

14 Is there anything wrong in the following program segment?

1 point

```
switch(someCharacter)
{
case 'a':
case 'e':
case 'i':
case 'o':
case 'u':
printf("Vowel");
break;
default:
printf("Consonant");
}
```

- ☐ Yes- case blocks are not defined
- ☐ No- it's all O.K
- ☐ Compiler Dependent
- ☐ More info required

15 What is wrong with the following program segment?

1 point

```
switch(temperature < 15 && windy == TRUE)
{
case !windy:
    printf("cold day");
    break;
default:
    printf("hot day");
}
```

- ☐ Nothing is wrong
- ☐ Variable cannot be used in individual cases
- ☐ Will print both the statements
- ☐ Break is not allowed when using variable in a case checking

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

Submit Answers

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