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reviewer4@nptel.iitm.ac.in ✓

**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](https://swayam.gov.in/nd1_noc20_cs06/preview))

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## Unit 6 - Week 4

### Course outline

#### How does an NPTEL online course work?

#### Week 0

#### Week 1

#### Week 2

#### Week 3

#### Week 4

- Lecture 16: IF-ELSE Statement (Contd.) (unit? unit=5&lesson=30)
- Lecture 17: Switch statement (unit? unit=5&lesson=31)
- Lecture 18: Switch Statement (Contd.) and Introduction to Loops (unit? unit=5&lesson=32)

## Assignment 4

The due date for submitting this assignment has passed. **Due on 2020-02-26, 23:59 IST.**  
As per our records you have not submitted this assignment.

1) The loop which is executed at least once is

1 point

- ☐ a) while  
☐ b) do-while  
☐ c) for  
☐ d) none of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:

*b) do-while*

2)

1 point

● Lecture 19:  
Implementing  
Repetitions  
(Loops) (unit?  
unit=5&lesson=33)

● Lecture 20:  
Implementation  
of Loops with for  
Statement  
(Contd.) (unit?  
unit=5&lesson=34)

○ Quiz :  
**Assignment 4**  
(assessment?  
name=103)

○ Week-04  
Program-01  
(/noc20\_cs06/progassignment?  
name=109)

○ Week-04  
Program-02  
(/noc20\_cs06/progassignment?  
name=110)

○ Week-04  
Program-03  
(/noc20\_cs06/progassignment?  
name=111)

○ Week-04  
Program-04  
(/noc20\_cs06/progassignment?  
name=112)

○ Week-04  
Program-05  
(/noc20\_cs06/progassignment?  
name=113)

○ Feedback For  
Week 4 (unit?  
unit=5&lesson=115)

**Week 5**

**Week 6**

**Week 7**

**Week 8**

**Week 9**

**Week 10**

**Week 11**

**Week 12**

What is the purpose of the given program? n is the input number given by the user.

```
#include <stdio.h>
int main()
{
    int n, x = 0, y;
    printf("Enter an integer: ");
    scanf("%d", &n);
    while (n != 0)
    {
        y = n % 10;
        x = x * 10 + y;
        n = n/10;
    }
    printf("Output is = %d", x);
    return 0;
}
```

- ☐ a) Sum of the digits of a number  
☐ b) Sum of the factorial of individual digits in a number  
☐ c) Reverse of a number  
☐ d) The same number is printed

No, the answer is incorrect.  
Score: 0

Accepted Answers:

c) *Reverse of a number*

What is the output of the following C code?

```
#include <stdio.h>
int main()
{
    int a = 1;
    if (a--)
        printf("True\n");
    if (++a)
        printf("False\n");
    return 0;
}
```

- ☐ a) True  
☐ b) False  
☐ c) Both 'True' and 'False' will be printed  
☐ d) Compilation error

No, the answer is incorrect.  
Score: 0

Accepted Answers:

c) *Both 'True' and 'False' will be printed*

1 point

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Solution**

4) What will be printed when the following C code is executed?

1 point

```
#include<stdio.h>
int main()
{
    if('A'<'a')
        printf("NPTEL");
    else
        printf("PROGRAMMING");
    return 0;
}
```

- ☐ a) NPTEL
- ☐ b) PROGRAMMING
- ☐ c) No output
- ☐ d) Compilation error as A and a are not declared as character variable

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) *NPTEL*

5) What will be the output of the following code?

1 point

```
#include<stdio.h>
int main()
{
    int p,t,si;
    float r;
    p=5000; t=4; r=7.5;
    si=(p*t*r)/100;
    printf("%f",si);
    return 0;
}
```

- ☐ a) 1500.000000
- ☐ b) 0.000000
- ☐ c) 1400.000000
- ☐ d) Compilation error

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) *0.000000*

6) In the following example, tell which statement is correct

1 point

```
if( (condition1==1) && (condition2)==1))
    printf("SUCCESS");
```

- ☐ a) condition1 will be evaluated first, condition2 will be evaluated second
- ☐ b) condition2 will be evaluated first, condition1 will be evaluated second
- ☐ c) condition1 will be evaluated first, condition2 will be evaluated only if condition1 is TRUE
- ☐ d) condition2 will be evaluated first, condition1 will be evaluated only if condition2 is TRUE

No, the answer is incorrect.

Score: 0

Accepted Answers:

*c) condition1 will be evaluated first, condition2 will be evaluated only if condition1 is TRUE*

7) What the following program will print?

1 point

```
#include<stdio.h>
int main()
{
    int a=0101;
    printf("\n a=%d", a);
    return 0;
}
```

- ☐ a) a=101
- ☐ b) a=5
- ☐ c) a=65
- ☐ d) Compilation error: Not a valid number

No, the answer is incorrect.

Score: 0

Accepted Answers:

*c) a=65*

8) Choose the correct output of the following C code.

1 point

```
#include<stdio.h>
int main()
{
    int var1=10, var2=6;
    if(var1=5)
    {
        var2++;
    }
    printf("%d %d", var1, var2++);
    return 0;
}
```

- ☐ a) 10 6
- ☐ b) 10 8

- ☐ c) 5 7
- ☐ d) 5 8

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) 5 7

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

1 point

- ☐ a) False statement
- ☐ b) Infinite loop
- ☐ c) Terminating the loop
- ☐ d) Never executed loop

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) Infinite loop

10

What will be the output? (&& is logical AND operation)

1 point

```
#include <stdio.h>
int main()
{
    int i=0, j=1;
    printf("\n %d", i++ && ++j);
    printf("\n %d %d", i, j);
    return 0;
}
```

- ☐ a) 0  
1 2
- ☐ b) 1  
1 1
- ☐ c) 0  
0 0
- ☐ d) 0  
1 1

No, the answer is incorrect.

Score: 0

Accepted Answers:

d) 0  
1 1

