

X

<https://swayam.gov.in>[https://swayam.gov.in/nc\\_details/NPTEL](https://swayam.gov.in/nc_details/NPTEL)

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))[Ask a Question \(forum\)](#)    [Progress \(student/home\)](#)    [Mentor \(student/mentor\)](#)

## Unit 7 - Week 5

### Course outline

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

#### Week 0

#### Week 1

#### Week 2

#### Week 3

#### Week 4

#### Week 5

- Lecture 21: For Statement (Contd.) (unit? unit=6&lesson=35)
- Lecture 22: Example of If-Else (unit? unit=6&lesson=36)
- Lecture 23 : Example of Loops (unit? unit=6&lesson=37)
- Lecture 24 : Example of

## Assignment 5

The due date for submitting this assignment has passed. **Due on 2020-03-04, 23:59 IST.**  
As per our records you have not submitted this assignment.

1)

1 point

What will be printed when the following code is executed?

```
#include<stdio.h>

int main()
{
    int i=0;
    for(;i<=9;)
    {
        i++;
        printf("%d ", i);
    }
    return 0;
}
```

- ☐ a) 0 1 2 ... 9
- ☐ b) 0 1 2 ... 10
- ☐ c) 1 2 3 ... 9
- ☐ d) 1 2 3 ... 10

No, the answer is incorrect.  
Score: 0

Loops (Contd.)  
(unit?  
unit=6&lesson=38)

- ☒ Lecture 25 :  
Example of  
Loops (Contd.),  
Use of FOR  
Loops (unit?  
unit=6&lesson=39)

☐ Quiz :  
**Assignment 5**  
(assessment?  
name=104)

☐ Week-05  
Problem-01  
(/noc20\_cs06/progassignment  
name=118)

☐ Week-05  
Problem-02  
(/noc20\_cs06/progassignment  
name=119)

☐ Week-05  
Problem-03  
(/noc20\_cs06/progassignment  
name=120)

☐ Week-05  
Program-04  
(/noc20\_cs06/progassignment  
name=121)

☐ Week-05  
Program-05  
(/noc20\_cs06/progassignment  
name=122)

☐ Feedback For  
Week 5 (unit?  
unit=6&lesson=130)

**Week 6**

**Week 7**

**Week 8**

**Week 9**

**Week 10**

**Week 11**

**Week 12**

**DOWNLOAD  
VIDEOS**

Accepted Answers:

*d) 1 2 3 ... 10*

2) Continue statement used

**1 point**

- ☐ a) to continue to the next line of code  
☐ b) to debug  
☐ c) to stop the current iteration and begin the next iteration from the beginning  
☐ d) None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

*c) to stop the current iteration and begin the next iteration from the beginning*

**1 point**

Compute the printed value of i of the C code given below

```
#include <stdio.h>
int main()
{
    int i = 0, j = 0;
    while (i < 4, j < 5)
    {
        i++;
        j++;
    }
    printf("%d, %d\n", i, j);
    return 0;
}
```

- ☐ a) 4, 5  
☐ b) 4, 4  
☐ c) 5, 5  
☐ d) 0, 0

No, the answer is incorrect.

Score: 0

Accepted Answers:

*c) 5, 5*

4)

**1 point**

**Assignment  
Solution**

The following program takes n, a positive integer as input.  
What is the purpose of the program?

```
#include <stdio.h>
int main()
{
    int n, i;
    unsigned long long result = 1;
    printf("Enter an integer: ");
    scanf("%d", &n);

    for(i=1; i<=n; ++i)
    {
        result*= i;
    }
    printf("The output of the program is %llu", result);
    return 0;
}
```

- ☐ a) n multiplied n times
- ☐ b) factorial of n
- ☐ c) display factors of n
- ☐ d) display Fibonacci series upto n.

No, the answer is incorrect.

Score: 0

Accepted Answers:

*b) factorial of n*

5)

1 point

What will be the output?

```
#include <stdio.h>
int main()
{
    switch(printf("IIT"))
    {
        default:
            printf(" Guwahati");
        case 1: printf(" Delhi");
            break;
        case 2: printf(" Kharagpur");
            break;
        case 3: printf(" Madras");
            break;
    }
    return 0;
}
```

- ☐ a) IIT Delhi
- ☐ b) IIT Kharagpur
- ☐ c) IIT Madras
- ☐ d) IIT Guwahati

No, the answer is incorrect.

Score: 0

Accepted Answers:

*c) IIT Madras*

6)

1 point

What will be the output?

```
#include <stdio.h>
int main()
{
    if((0 && 1)|| (1 && -1))
        printf("Condition is true.");
    else
        printf("Condition is false.");
    return 0;
}
```

- ☐ a) Condition is true
- ☐ b) Condition is false
- ☐ c) Error
- ☐ d) No output possible

No, the answer is incorrect.  
Score: 0

Accepted Answers:

*a) Condition is true*

7)

**1 point**

What will be the output of the following code?

```
#include <stdio.h>
int main( )
{
    int c=1;
    while(c<=5)
    {
        if(c==3)
            break;
        printf("%d ", c);
        c++;
    }
    return 0;
}
```

- ☐ a) 1 2 3 4 5
- ☐ b) 1 2 4 5
- ☐ c) 1 2
- ☐ d) 4 5

No, the answer is incorrect.  
Score: 0

Accepted Answers:

*c) 1 2*

8)

1 point

What will be output of the C code?

```
#include <stdio.h>
int main()
{
    char x=0;
    for(x=0; x<=127; x++) {
        printf("%d ", x);
    }
    return 0;
}
```

- ☐ a) Compilation error
- ☐ b) 0, 1, 2 ....., 127
- ☐ c) 0, 1, 2, ....., 127, -128, -127, ....., -2, -1, 0, 1, ..... infinite loop
- ☐ d) 1, 2, 3.....,127

No, the answer is incorrect.  
Score: 0

Accepted Answers:

c) 0, 1, 2, ....., 127, -128, -127, ....., -2, -1, 0, 1, ..... infinite loop

9)

1 point

The following if-block inside a function is intended to check whether n is a leap year. The expression in the blank is \_\_\_\_\_.

```
if(n%100 == 0){
    if(____){
        printf ("%d is a leap year.\n", n);
        return 0;
    }
}
if(n%4 == 0){
    printf ("%d is a leap year.\n", n);
    return 0;
}
```

- ☐ a) n==4
- ☐ b) n%400 != 0
- ☐ c) n>0
- ☐ d) n%400 == 0

No, the answer is incorrect.  
Score: 0

Accepted Answers:

d) n%400 == 0

10

1 point

What is the output of the following code?

```
#include <stdio.h>
int main()
{
    int i=0;
    do
    {
        printf("while vs do-while\n");
    } while(i==0);
    printf("Out of loop");
    return 0;
}
```

- ☐ a) 'while vs do-while' once
- ☐ b) 'Out of loop' infinite times
- ☐ c) Both 'while vs do-while' and 'Out of loop' once
- ☐ d) 'while vs do-while' infinite times

No, the answer is incorrect.

Score: 0

Accepted Answers:

d) *'while vs do-while' infinite times*