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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Problem Solving Through Programming In C (course)



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Thank you for taking the Week 8: (https://examform.nptel.ac.in/2023\_10/exam\_form/datassignment 8.

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### Course outline

How does an **NPTEL** online course work? ()

Week 0: ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

# Week 8: Assignment 8

Your last recorded submission was on 2023-09-19, 22:44 Due date: 2023-09-20, 23:59 IST. IST

1) A function prototype is used for

1 point

- a) Declaring the function logic
- Ob) Calling the function from the main body
- oc) Telling the compiler, the kind of arguments used in the function
- Od) Telling the user for proper use of syntax while calling the function
- 2) What is the default return type if it is not specified in function definition?
- 1 point

- a) void
- ob) integer
- Oc) double
- Od) float

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- Lecture 36:More onFunctions(unit?unit=77&lesson=78)
- Lecture 37: Function (Contd.) (unit? unit=77&lesso n=79)
- Lecture 38:
  Scanf and
  Printf
  Functions;
  Function
  Prototype
  (unit?
  unit=77&lesso
  n=80)
- Lecture 39:

   Parameter
   Passing in
   Function
   Revision (unit?
   unit=77&lesso
   n=81)
- Lecture 40:
   Parameter
   Passing in
   Function
   Revision
   (Contd.) (unit?
   unit=77&lesso
   n=82)
- Quiz: Week 8: Assignment 8(assessment? name=253)
- Week 8:
   Programming
   Assignment 1
   (/noc23\_cs121
   /progassignme
   nt?name=256)
- Week 8 :
   Programming
   Assignment 2
   (/noc23\_cs121

```
3)
                                                                            1 point
      What will be the output?
      #include <stdio.h>
      int main()
       {
              int a = 70;
    {
              printf("%d", a);
        return 0;
  Oa) 70
  Ob) Garbage value
  c) Compilation error
  Od) None
4)
                                                                            1 point
      How many times will 'Hello world' be printed?
      #include<stdio.h>
      int main()
      {
        printf("Hello world\n");
        main();
        return 0;
      }
  a) Infinite times
  Ob) 32767
  Oc) 65535
```

od) Till stack overflows

#### /progassignme Assessmant subrnitted.

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- Week 8:
   Programming
   Assignment 3
   (/noc23\_cs121
   /progassignme
   nt?name=258)
- Week 8: Programming Assignment 4 (/noc23\_cs121 /progassignme nt?name=259)
- Feedback
  Form of Week
  8 (unit?
  unit=77&lesso
  n=261)

#### Week 9 ()

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Text
Transcripts ()

Problem Solving Session -July 2023 ()

```
5)
     How many times 'Hi' will be printed in the program given below
     #include<stdio.h>
     int i;
      int fun();
     int main()
      {
        while(i)
        {
           fun();
           main();
        printf("Hello\n");
        return 0;
     int fun()
        printf("Hi");
  a) Only once
  ob) Zero times
  Oc) Infinite times
  Od) Compilation error
6)
     How many times the function factorial will be executed?
     #include<stdio.h>
     int factorial(int);
     int main()
      {
     int n=5;
     long int f;
      f = factorial(n);
     printf("\%d! = \%ld\n", n, f);
     return 0;
```

```
6
```

int factorial(int n)

return(n \* factorial(n-1));

if(n == 0)return 1;

}

Hint

1 point

1 point

```
Assessment submitted. X
```

```
7)
                                                                               1 point
      What will be the output?
     #include<stdio.h>
     void func(int n, int sum)
     int k = 0, j = 0;
     if (n == 0) return;
             k = n \% 10;
     j = n / 10;
     sum = sum + k;
     func (j, sum);
     printf ("%d,", k);
     int main ()
     int a = 2048, sum = 0;
     func (a, sum);
     printf ("%d ", sum);
      }
  a) 8 ,4, 0, 2, 14
  Ob) 8, 4, 0, 2, 0
  Oc) 2, 0, 4, 8, 14
  od) 2, 0, 4, 8, 0
8)
                                                                               1 point
      What is the output of the following C program?
      #include <stdio.h>
      int fun(int n)
        int i, j, sum = 0;
         for(i = 1; i \le n; i++)
           for(j=i; j<=i; j++)
              sum = sum + j;
        return(sum);
      }
      int main()
        printf("%d", fun(10));
        return 0;
      }
  oa) 55
  Ob) 45
  Oc) 66
  Od) 10
9)
                                                                               1 point
```

Assessment submitted. X

```
Consider the function
 int find(int x, int y)
 {
        return((x < y) ? 0 : (x-y));
 Let a and b be two non-negative integers. The call find(a, find(a, b)) can
 be used to find the
  a) Maximum of a, b
  Ob) Positive difference between a and b
  Oc) Sum of a and b
  Od) Minimum of a and b
10)
      What is the output of the C code given below
      #include <stdio.h>
      float func(float age[]);
      int main()
        float result, age[] = { 23.4, 55, 22.6, 3, 40.5, 18 };
        result = func(age);
        printf("%0.2f", result);
      return 0;
      float func(float age[])
        int i:
        float result, sum = 0.0;
        for (i = 0; i < 6; ++i) {
           sum += age[i];
        result = (sum / 6);
        return result;
      }
27.08
Hint
```

1 point

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

**Submit Answers** 

Assessment submitted.

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