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



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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

Thank you for taking the Week 8:

1) A function prototype is used for

1 point

- Oa) Declaring the function logic
- Ob) Calling the function from the main body
- o c) 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

### Assessmere & work in itted.

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O Lecture 36: More on

**Functions** (unit?

unit=77&lesso n=78)

O Lecture 37: Function (Contd.) (unit? unit=77&lesso

O Lecture 38: Scanf and

Printf Functions:

n=79)

**Function** 

Prototype

(unit?

unit=77&lesso

n=80)

Lecture 39 : Parameter Passing in **Function** Revision (unit? unit=77&lesso

C Lecture 40: Parameter Passing in **Function** Revision

n=81)

(Contd.) (unit? unit=77&lesso n=82)

od) Till stack overflows

Quiz: Week 8 : Assignment (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
```

https://onlinecourses.nptel.ac.in/noc23\_cs121/unit?unit=77&assessment=253

### /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 ()

## DOWNLOAD VIDEOS ()

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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

```
7)
                                                                                                               1 point
                                      What will be the output?
Assessment submitted.
                                     #include<stdio.h>
Χ
                                      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. Χ

```
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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