WEEK 8:

```
1) A function prototype is used for
                                                                                                                                                      1 point
 a) Declaring the function logic
  b) Calling the function from the main body
  ® c) Telling the compiler, the kind of arguments used in the function
 d) Telling the user for proper use of syntax while calling the function
 Yes, the answer is correct.
Score: 1
 Accepted Answers:
c) Telling the compiler, the kind of arguments used in the function
2) What is the default return type if it is not specified in function definition?
                                                                                                                                                      1 point
  a) void
 b) integer
 c) double
d) float
 Yes, the answer is correct. Score: 1
 Accepted Answers:
 b) Integer
                                                                                                                                                      1 point
        What will be the output? #include <stdio.h>
         int main()
     int a = 70;
            printf("%d", a);
}
          return 0;
  a) 70
  b) Garbage value
  ( c) Compilation error
  d) None
 Yes, the answer is correct. Score: 1
 Accepted Answers:
c) Compliation error
```

```
How many times 'Hi' will be printed in the program given below #include<stdio h> int i; int fun();
                                                                                                                                                                                                                         1 point
          int main()
              while(i)
             fun();
main();
            printf("Hello\n");
return 0;
          int fun()
        printf("Hi");
  a) Only once
   B) Zero times
   c) Infinite times
  d) Compilation error
Yes, the answer is correct.
Score: 1
Accepted Answers:
b) Zero times
       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;
          int factorial(int n)
          \begin{cases} & \text{if } (n=0) \\ & \text{return 1}; \\ & \text{else} \\ & \text{return}(n * factorial(n-1)); \end{cases} 
 No, the answer is incorrect.
Score: 0
Accepted Answers
(T)/pe: Numeric) &
```

```
1 point
         What is the output of the following C program?
         #include <stdio.h>
         int fun(int n)
            \begin{split} & \text{int i, j, sum} = 0; \\ & \text{for}(i = 1; i \!<\!\! =\!\! n; i \!+\!\!+\!\! ) \\ & \text{for}(j \!=\!\! i; j \!<\!\! =\!\! i; j \!+\!\!+\!\! ) \\ & \text{sum} = \text{sum} + j; \\ & \text{return(sum);} \end{split}
         int main()
            printf("%d", fun(10));
return 0;
  ® a) 55
  ○ b) 45
  0 c) 66
Yes, the answer is correct.
Score: 1
                                                                                                                                                                                      1 point
       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
  b) Positive difference between a and b
   o) Sum of a and b
   ng d) Minimum of a and b
Yes, the answer is correct.
Score: 1
Accepted Answers:
d) Minimum of a and b
        What is the output of the C code given below \#include \lestdio.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
```

Write a C program to print Largest and Smallest Word from a given sentence. If there are two or more words of same length, then the first one is considered. A single letter in the sentence is also consider as a word.

evaluation		•	Status
Test Case 1 AICTE Approved Course.	Largest Word is: Approved\n Smallest word is: FDP	Largest Word is: Approved\n Smallest word is: FDP\n	Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-09-09, 08:54 IST

Your last recorded submission was :

```
#includestdio.h»
| #includestdio
```

Write a C Program to find HCF of 4 given numbers using recursive function

Private Test cases used for evaluation **Expected Output Actual Output** Status Input 50 455 Test Case 1 The HCF is 5 The HCF is 5 Passed 60 200 67 89 Test Case 2 The HCF is 1 The HCF is 1 Passed 45 41

The due date for submitting this assignment has passed.

2 out of 2 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-09-21, 06:55 IST

Your last recorded submission was :

```
#include<stdio.h>
int HCF(int, int); //You have to write this function which calculates the HCF.

int main()
{
    int a, b, c, d, result;
    scanf("%d %d %d %d", &a, &b, &c, &d); /* Takes 4 number as input from the test data */
    result = HCF(HCF(a, b), HCF(c,d));
    printf("The HCF is %d", result);
}

//Complete the rest of the program to calculate HCF
int HCF(int x,int y)

{
    if (x==0)
    {
        return y;
    }
    return HCF(y%x,x);
}
```

Write a C Program to find power of a given number using recursion. The number and the power to be calculated is taken from test case

Test Case 1 16 16^3 is 4096 16^3 is 4096 Passed	Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
3	Test Case 1	16 3	16^3 is 4096	16^3 is 4096	Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-09-21, 06:57 IST

Your last recorded submission was

Write a C Program to print Binary Equivalent of an Integer using Recursion

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	30	The binary equivalent of 30 is 11110	The binary equivalent of 30 is 11110\n	Passed
Test Case 2	111	The binary equivalent of 111 is 1101111	The binary equivalent of 111 is 1101111\n	Passed

The due date for submitting this assignment has passed.

2 out of 2 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-09-21, 07:12 IST

Your last recorded submission was :

Write a C Program to reverse a given word using function. e.g. INDIA should be printed as AIDNI

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	INDIA	The string after reversing is: AIDNI	The string after reversing is: AIDNI	Passed
Test Case 2	DELHI	The string after reversing is: IHLED	The string after reversing is: IHLED	Passed

The due date for submitting this assignment has passed.

2 out of 2 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-09-21, 07:28 IST

Your last recorded submission was :