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Unit 7 - Week 5

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

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

3) **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