Assignment 4

The due date for submitting this assignment has passed. Due on 2020-02-26, 23:59 IST. As per our records you have not submitted this assignment.

1) The loop which is executed at least once is

- a) while
- b) do-while
- c) for
- d) none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
- b) do-while

2)
What is the purpose of the given program? n is the input number given by the user.

```c
#include <stdio.h>

int main()
{
    int n, x = 0, y;
    printf("Enter an integer: ");
    scanf("%d", &n);
    while (n != 0)
    {
        y = n % 10;
        x = x * 10 + y;
        n = n/10;
    }
    printf("Output is = %d", x);
    return 0;
}
```

a) Sum of the digits of a number
b) Sum of the factorial of individual digits in a number
c) Reverse of a number
d) The same number is printed

No, the answer is incorrect.
Score: 0
Accepted Answers:
c) Reverse of a number

What is the output of the following C code?

```c
#include <stdio.h>

int main()
{
    int a = 1;
    if (a--)
        printf("True\n");
    if (++a)
        printf("False\n");
    return 0;
}
```

a) True
b) False
c) Both ‘True’ and ‘False’ will be printed
d) Compilation error

No, the answer is incorrect.
Score: 0
Accepted Answers:
c) Both ‘True’ and ‘False’ will be printed
4) What will be printed when the following C code is executed?

```c
#include<stdio.h>
int main()
{
    if('A'<='a')
        printf("NPTEL");
    else
        printf("PROGRAMMING");
    return 0;
}
```

- a) NPTEL
- b) PROGRAMMING
- c) No output
- d) Compilation error as A and a are not declared as character variable

No, the answer is incorrect.
Score: 0
Accepted Answers:
- a) NPTEL

5) What will be the output of the following code?

```c
#include<stdio.h>
int main()
{
    int p,t,si;
    float r;
    p=5000; t=4; r=7.5;
    si=(p*t*r)/100;
    printf("%.2f",si);
    return 0;
}
```

- a) 1500.000000
- b) 0.000000
- c) 1400.000000
- d) Compilation error

No, the answer is incorrect.
Score: 0
Accepted Answers:
- b) 0.000000

6) In the following example, tell which statement is correct

```c
if( (condition1==1) && (condition2)==1))
    printf("SUCCESS");
```

1 point
a) condition1 will be evaluated first, condition2 will be evaluated second  
b) condition2 will be evaluated first, condition1 will be evaluated second  
c) condition1 will be evaluated first, condition2 will be evaluated only if condition1 is TRUE  
d) condition2 will be evaluated first, condition1 will be evaluated only if condition2 is TRUE

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
c) condition1 will be evaluated first, condition2 will be evaluated only if condition1 is TRUE

7) What the following program will print?  
   1 point  
   ```c
#include<stdio.h>
int main()
{
    int a=0101;
    printf("n a=%d", a);
    return 0;
}
```
   a) a=101  
b) a=5  
c) a=65  
d) Compilation error: Not a valid number

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
c) a=65

8) Choose the correct output of the following C code.  
   1 point  
   ```c
#include<stdio.h>
int main()
{
    int var1=10, var2=6;
    if(var1=5)
    {
        var2++;
    }
    printf("%d %d", var1, var2++);
    return 0;
}
```
   a) 10 6  
b) 10 8
9) While(1) is used in a program to create
   a) False statement
   b) Infinite loop
   c) Terminating the loop
   d) Never executed loop

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   b) Infinite loop

10) What will be the output? (&& is logical AND operation)
    #include <stdio.h>
    int main()
    {
        int i=0, j=1;
        printf("\n%d", i++ && ++j);
        printf("\n%d %d", i, j);
        return 0;
    }

   a) 0
      1 2
   b) 1
      1 1
   c) 0
      0 0
   d) 0
      1 1

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   d) 0
      1 1