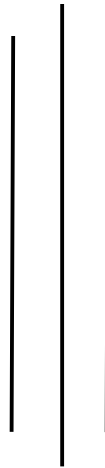# Object Oriented Programming Laboratory

Assignment – 1

Submitted By:

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CSE-34

Date: 28th July,2022

Question 1:

```cpp
1    //  WAP to check a number is positive or negative.
2
3    #include<iostream>
4
5    using namespace std;
6
7    int main(){
8        int num;
9        cout<<"Enter a number: ";
10       cin>>num;
11       if(num>0){
12           cout<<"Positive";
13       }
14       else if(num<0){
15           cout<<"Negative";
16       }
17       else{
18           cout<<"Zero";
19       }
20       return 0;
21   }
```

Output:

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

Windows PowerShell
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PS C:\Users\KIIT01\Desktop\programming> cd "c:\Users\KIIT01\Desktop\programming\OOP\28 july\" ; if ($?) { g++ q1positivene
getive.cpp -o q1positivenegetive } ; if ($?) { .\q1positivenegetive }
Enter a number: 57
Positive
PS C:\Users\KIIT01\Desktop\programming\OOP\28 july>

Question 2:

```cpp
// WAP to find the largest number among three numbers.

#include<iostream>
using namespace std;

int main(){
    int a,b,c;
    cout<<"Enter three numbers: ";
    cin>>a>>b>>c;
    int d;
    d=(a>b)?(a>c?a:c):(b>c?b:c);
    cout<<"Largest number is: "<<d;
}
```

Output:

Question 3:

```cpp
// WAP to find the factorial of a number.

#include<iostream>
using namespace std;

int main(){
    int num;
    cout<<"Enter a number: ";
    cin>>num;
    int fact=1;
    for(int i=1;i<=num;i++){
        fact=fact*i;
    }
    cout<<"Factorial of "<<num<<" is: "<<fact;
    return 0;
}
```

Output:

```
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PS C:\Users\KIIT01\Desktop\programming> cd "c:\Users\KIIT01\Desktop\programming\OOP\28 july\" ; if ($?) { g++ q3factorial.cpp -o q3factoria
l } ; if ($?) { .\q3factorial }
Enter a number: 8
Factorial of 8 is: 40320
PS C:\Users\KIIT01\Desktop\programming\OOP\28 july>
```

Question 4:

```cpp
// WAP to swap two numbers using a third variable.
#include<iostream>
using namespace std;

int main(){
    int a,b;
    cout<<"Enter two numbers: ";
    cin>>a>>b;
    int temp;
    temp=a;
    a=b;
    b=temp;
    cout<<"After swapping: "<<a<<" "<<b;
    return 0;
}
```

Output:

Question 5:

```cpp
1    // WAP to accept a number between 1 and 10 and print the corresponding table using do while loop.
2
3    #include<iostream>
4    using namespace std;
5
6    int main(){
7        int num;
8        cout<<"Enter a number between 1 and 10: ";
9        cin>>num;
10       int i=1;
11       do{
12           cout<<num<<" * "<<i<<" = "<<num*i<<endl;
13           i++;
14       }while(i<=10);
15       return 0;
16   }
```

Output:

```
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PS C:\Users\KIIT01\Desktop\programming> cd "c:\Users\KIIT01\Desktop\programming\OOP\28 july\" ; if ($?) { g++ q5table.cpp -o q5table } ; if
 ($?) { .\q5table }
Enter a number between 1 and 10: 8
8 * 1 = 8
8 * 2 = 16
8 * 3 = 24
8 * 4 = 32
8 * 5 = 40
8 * 6 = 48
8 * 7 = 56
8 * 8 = 64
8 * 9 = 72
8 * 10 = 80
PS C:\Users\KIIT01\Desktop\programming\OOP\28 july> ▊
```

Question 6:

```cpp
// WAP to reverse a number.

#include<iostream>
using namespace std;
int main(){
    int num;
    cout<<"Enter a number: ";
    cin>>num;
    int rev=0;
    while(num>0){
        rev=rev*10+num%10;
        num=num/10;
    }
    cout<<"Reverse is: "<<rev;
    return 0;
}
```

Output: