Lab Task 05 Submitted By: **Wasif Mehmood** Submitted To: Zakira Inayat Reg No: PWBCS0769 Department: CS&IT (SECTION B) Q1. Write a C++ program which inputs two numbers from the user, and display the maximum

of them.

For sample output, the first number is the last two digits of your registration number, whereas the second number is the reverse of the first number.

```
#include<iostream>
using namespace std;
int main()
{
     int num1,num2;
     cout<<"Enter the Number: ";
     cin>>num1;
     cout<<"Enter the Number: ";
     cin>>num2;
     if(num1>num2)
     {
          cout<<"Maximum number is: "<<num1<<endl;
      }
      else
      cout<<"Maximum number is: "<<num2<<endl;
      return 0;
}</pre>
```

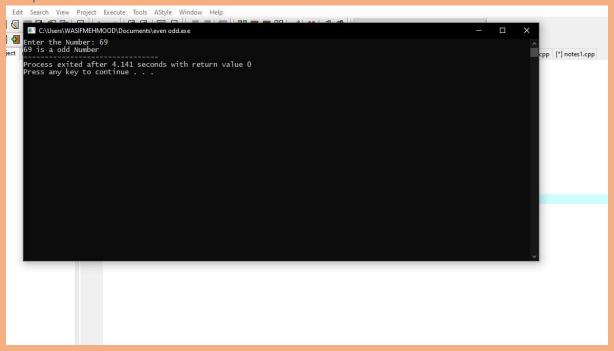
Q2. Write a C++ program which inputs a number from the user, and classify it as even or odd.

For sample output, use the last two digits of your registration number.

```
#include<iostream>
using namespace std;
int main()
{
    int num;
    cout<<"Enter the Number: ";
    cin>>num;
    if(num%2==0)
    {
        cout<<num<<" is an even Number";
    }
    else
    cout<<num<<" is an odd Number";
    return 0;</pre>
```

}

Output:

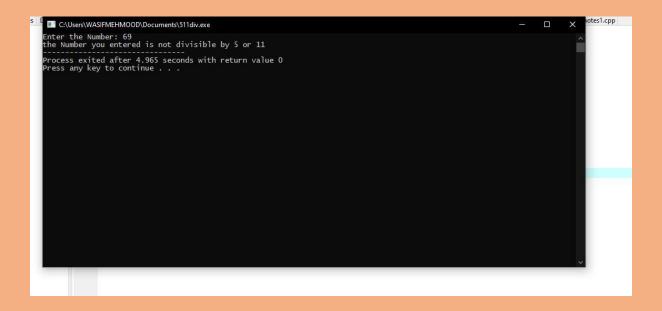


Q3. Write a C++ program which inputs a number and check if it is divisible by 5 and 11.

For sample output, use the last two digits of your registration number.

```
#include<iostream>
using namespace std;
int main()
{
    int num;
    cout<<"Enter the Number: ";
    cin>>num;
    if(num%5==0 || num%11==0)
    {
        cout<<"the Number you entered is divisible by 5 or 11";</pre>
```

```
else
cout<<"the Number you entered is not divisible by 5 or 11";
return 0;
}</pre>
```



Q4. Write a C++ program which inputs a character and check if it is vowel or consonant. For sample input, use the 3rd letter of your name.

```
#include<iostream>
using namespace std;
int main()
{
      char ch;
      cout<<"Enter the character from a to z in small order";
      cin>>ch;
      if(ch=='a'|| ch=='e'|| ch=='i' || ch=='o' || ch=='u')
```

```
{
     cout<<ch<<" is a vowel";
}
else
cout<<ch<<" is a consonant";
return 0;
}</pre>
```

```
using namespace std;
int main()

charch:

chuschWASIFMEHMODD\Documents\vowelexe

Enter the character From a to z in small order: s
is a consonant

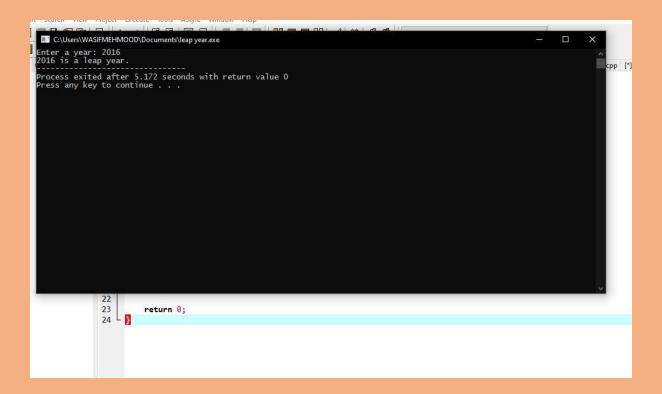
Process exited after 3.19 seconds with return value 0

Press any key to continue . . .
```

Q5. Write a C++ program which inputs a year and check if it is leap year.

```
#include <iostream>
using namespace std;
int main()
```

```
int year;
  cout << "Enter a year: ";</pre>
  cin >> year;
  if (year % 4 == 0) {
     if (year % 100 == 0) {
       if (year % 400 == 0)
          cout << year << " is a leap year.";</pre>
       else
          cout << year << " is not a leap year.";</pre>
     }
     else
       cout << year << " is a leap year.";</pre>
  }
  else
    cout << year << " is not a leap year.";</pre>
  return 0;
}
```



Q.6. A bank teller has money available in the form of 4 denominations of 1, 5, 50, and 100. Whenever a customer demands some amount, the teller attempts to minimize the use of notes by distributing the highest value denomination notes, followed by the lesser value notes. The objective is to minimize the minimum number of notes disbursement. For example, to disburse Rs. 319/-, the teller will provide 3 notes of 100, 0 notes of fifty, 3 notes of five, and 4 notes of one. You task is to design a computer program which will input the required amount, and will display the number of notes required for each denomination.

```
#include<iostream>
using namespace std;
int main()
{
    int amt,R100,R50,R5,R1;
```

```
(Globals)

Enter amount: 319
Rx. 100: 3
Rx. 1: 4

Process exited after 3.341 seconds with return value 0
Press any key to continue . . .
```