Question number 1

```cpp
#include <iostream>

using namespace std;


int main()

{

        string date;

        cout<<"Enter Date in the format of DD/MM/YYYY : ";

        getline(cin,date);

        cout<<"Date is   : "<<date[0]<<date[1]<<endl;

        cout<<"Month is  : "<<date[3]<<date[4]<<endl;

        cout<<"Year is   : "<<date[6]<<date[7]<<date[8]<<date[9];

return 0;

}
```
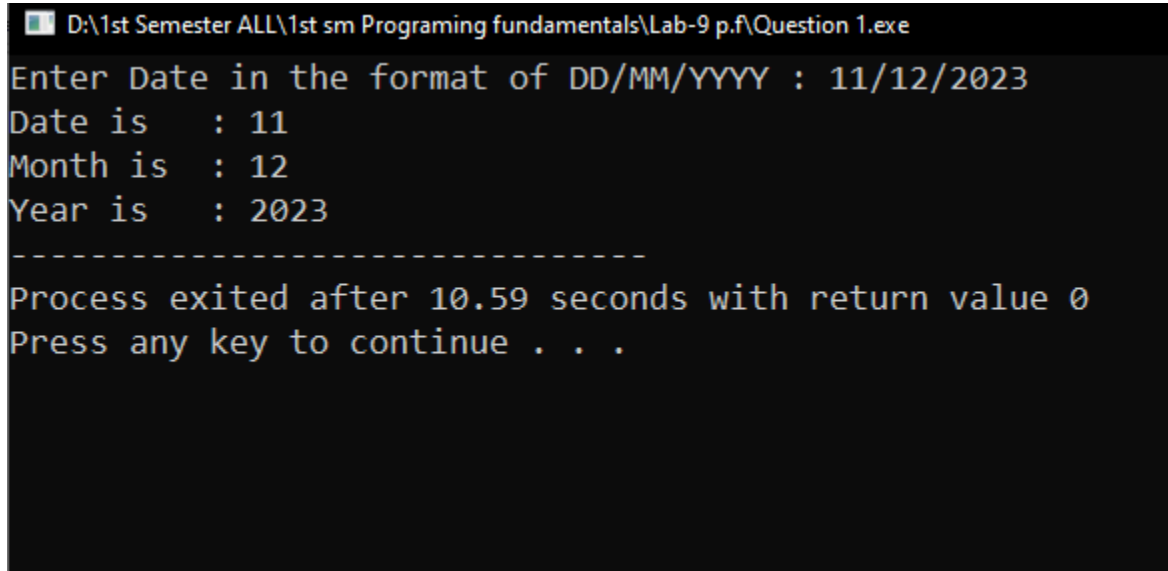
```
Enter Date in the format of DD/MM/YYYY : 11/12/2023
Date is    : 11
Month is   : 12
Year is    : 2023
--------------------------------
Process exited after 10.59 seconds with return value 0
Press any key to continue . . .
```

Question number 2

```cpp
#include <iostream>

#include <string>

using namespace std;
```

```cpp
int words (string);

int main()
{
        int count;
        string sentence;
        cout<<"Enter any Sentence to see the number of words in it : ";
        getline(cin,sentence);

        count=words(sentence);
        cout<<"This Sentence has "<<count<<" words ";

return 0;
}
        int words (string sentence){
                int count;
                int words=1;
                int t_w;
                count=sentence.length();

                for(int i=0 ; i<count ; i++){

                        if(sentence[i]==32){
                                words++;
                        }
                }

                t_w=words;
```

```
        return t_w;

    }
```

Question number 3

```cpp
        #include <iostream>

#include <string>

using namespace std;


int main()

{

        string num;

        string f;

        cout<<"Enter your number here in xxxx-xxxxxxx format : ";

        getline(cin,num);


        if(num[4]=='-'&&num[0]=='0'&&num[1]=='3'&&num[2]=='0'&&num[3]=='0'){

                cout<<"Your Mobile Net-Work is : "<<" Mobilink ";

        }

        else if(num[4]=='-'&&num[0]=='0'&&num[1]=='3'&&num[2]=='3'&&num[3]=='3'){

                cout<<"Your Mobile Net-Work is : "<<" Ufone ";

        }

        else if(num[4]=='-'&&num[0]=='0'&&num[1]=='3'&&num[2]=='1'&&num[3]=='5'){

                cout<<"Your Mobile Net-Work is : "<<" Zong ";

        }
```
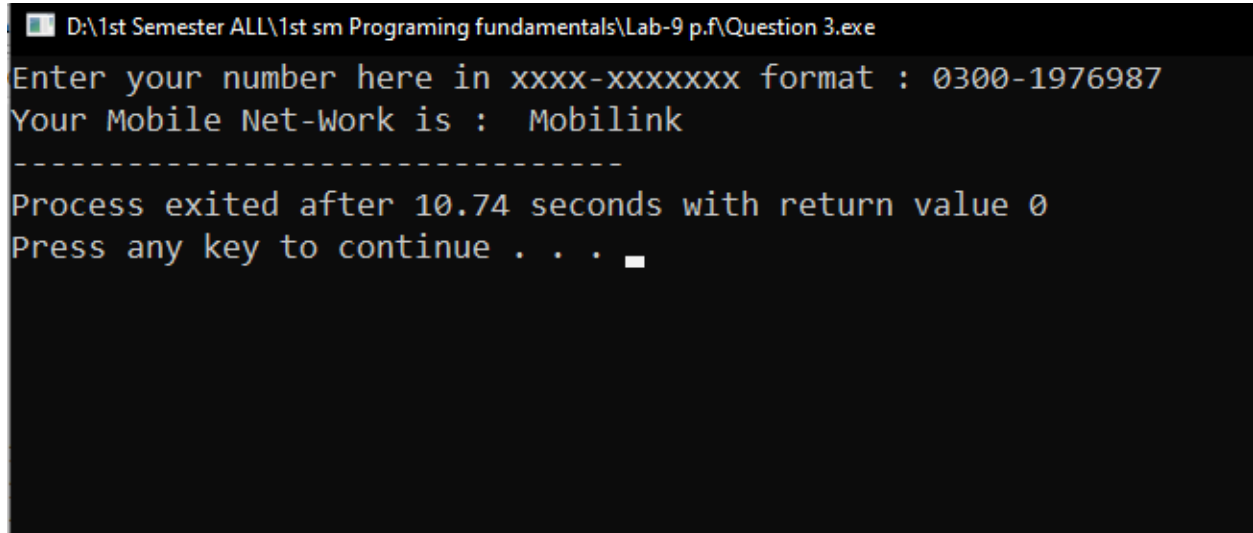
```
        else if(num[4]=='-'&&num[0]=='0'&&num[1]=='3'&&num[2]=='1'&&num[3]=='5'){

                cout<<"Your Mobile Net-Work is : "<<" Telenor ";

        }

return 0;

}
```

```
Enter your number here in xxxx-xxxxxxx format : 0300-1976987
Your Mobile Net-Work is :  Mobilink
------------------------------
Process exited after 10.74 seconds with return value 0
Press any key to continue . . .
```

Question number 4

```
#include <iostream>

#include <string>

using namespace std;


int main()

{

        string firstName;

        string lastName;


        string email=" @iba-suk.edu.pk ";

        cout<<"Enter your first name here : ";

        cin>>firstName;
```
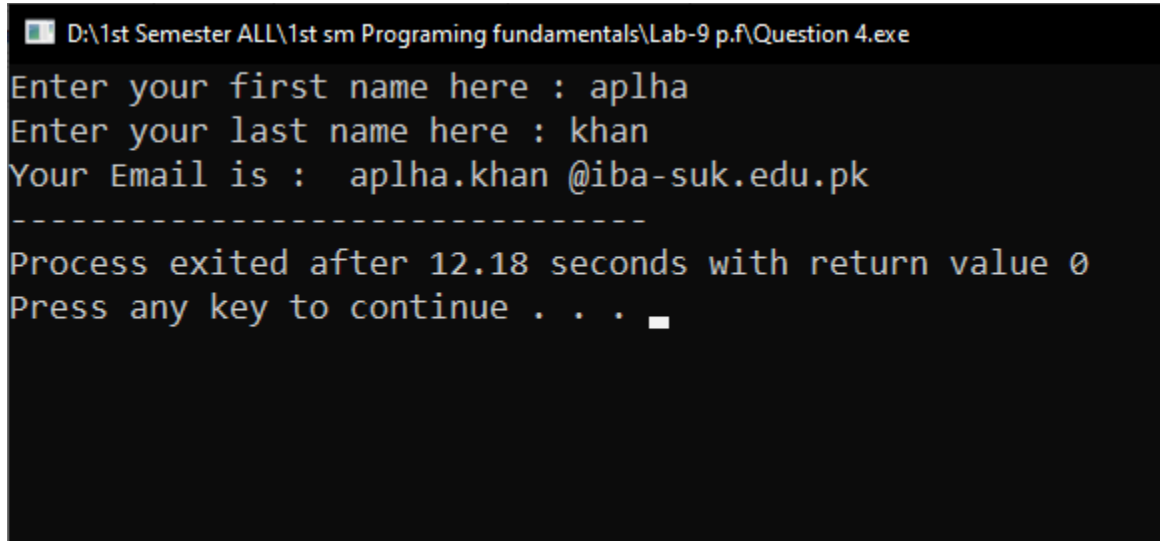
```cpp
cout<<"Enter your last name here : ";

cin>>lastName;


cout<<"Your Email is :  "<<firstName+'.'+lastName+email;

return 0;

}
```


Question number 5

```cpp
#include <iostream>

#include <string>

using namespace std;

string my_lower(string);


int main()

{

        string l_c;

        string sen;

        cout<<"Upper case sen is : ";

        getline(cin,sen);

        l_c=my_lower(sen);
```

```cpp
        cout<<"Lower case sen is : "<<l_c;


return 0;

}

        string my_lower(string sen){


                for(int i=0;i<=sen.length();i++)

                {

                        if(sen[i]>=65 && sen[i]<=90 )

                        {

                                sen[i]=sen[i]+32;

                        }

                }

                return sen;

        }
```
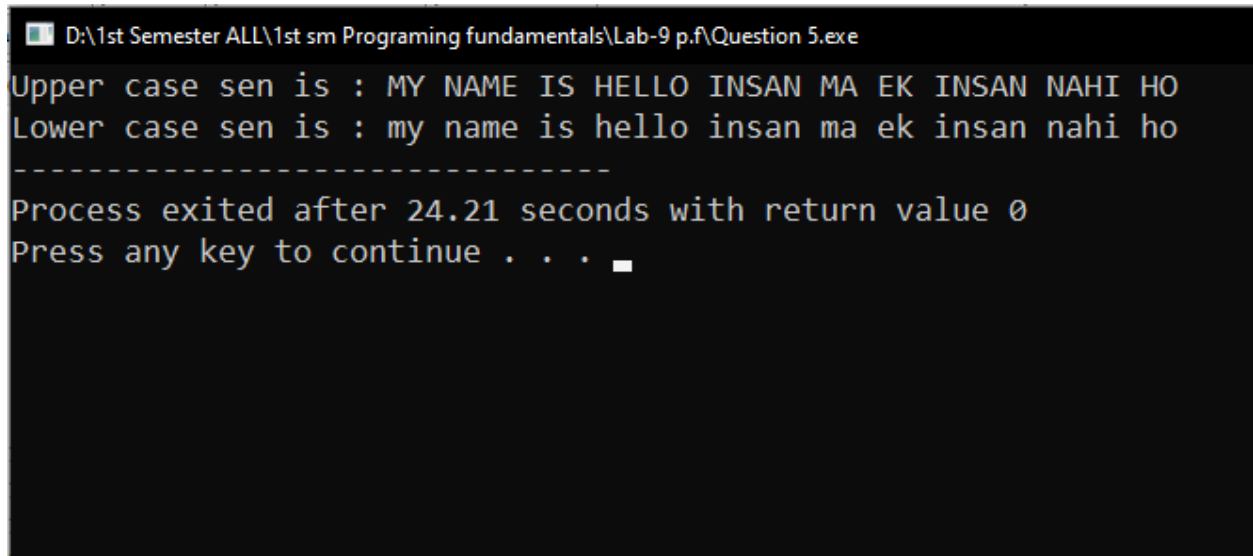


```
D:\1st Semester ALL\1st sm Programing fundamentals\Lab-9 p.f\Question 5.exe
Upper case sen is : MY NAME IS HELLO INSAN MA EK INSAN NAHI HO
Lower case sen is : my name is hello insan ma ek insan nahi ho
--------------------------------
Process exited after 24.21 seconds with return value 0
Press any key to continue . . .
```

Question number 6

#include <iostream>

#include <string>

using namespace std;

```cpp
string my_upper(string);


int main()
{
        string u_c;
        string sen;
        cout<<"Lower case sen is : ";
        getline(cin,sen);
        u_c=my_upper(sen);
        cout<<"Upper case sen is : "<<u_c;


return 0;
}
        string my_upper(string sen){


                for(int i=0;i<=sen.length();i++)
                {
                        if(sen[i]>=97 && sen[i]<=122 )
                        {
                                sen[i]=sen[i]-32;
                        }
                }
        return sen;
        }
```

```
Lower case sen is : my name is hello insan ma ek insan nahi hoo
Upper case sen is : MY NAME IS HELLO INSAN MA EK INSAN NAHI HOO
-------------------------------
Process exited after 14.19 seconds with return value 0
Press any key to continue . . .
```

Question number 7

```cpp
#include <iostream>

#include <string>

using namespace std;


int main()

{

    string word;

    string rev;

    cout<<"Is this word a Palandrome ?? >>  ";

    cin>>word;


    for(int i=word.length()-1;i>=0;i--){

        rev+=word[i];

        }


        if(rev!=word){

                cout<<"This word is not a Palandrome ";

        }
        else{

                cout<<"This word is a Palandrome";
```

```
        }

}
```

```
Is this word a Palandrome ?? >>  madddam
This word is a Palandrome
---------------------------------
Process exited after 4.393 seconds with return value 0
Press any key to continue . . .
```