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Assignment: PF Lab 9

Sec: H

Task 1.

Input

```
#include<iostream>

#include<string>

using namespace std;

int main ()

{

    string date;

    cout<<"Enter date (DD/MM/YY) i.e (05/03/2023): ";

    getline(cin,date);


    cout<<"\nThe date is "<<date.substr(0,2);


    cout<<"\nThe month is "<<date.substr(3,2);

    cout<<"\nThe year is "<<date.substr(6,4);


    return 0;

}
```

OUTPUT

 E:\LAB tasks Pf\Lab 9\task 1 LAB 9 Seperate date Mon Year.exe

```
Enter date (DD/MM/YY) i.e (05/03/2023): 17/05/2005

The date is 17
The month is 05
The year is 2005
-----
Process exited after 15.51 seconds with return value 0
Press any key to continue . . .
```

TASK 2.

Input

```
#include<iostream>
#include<string>
using namespace std;
int Findwords (string line);
int main ()
{
    string line;

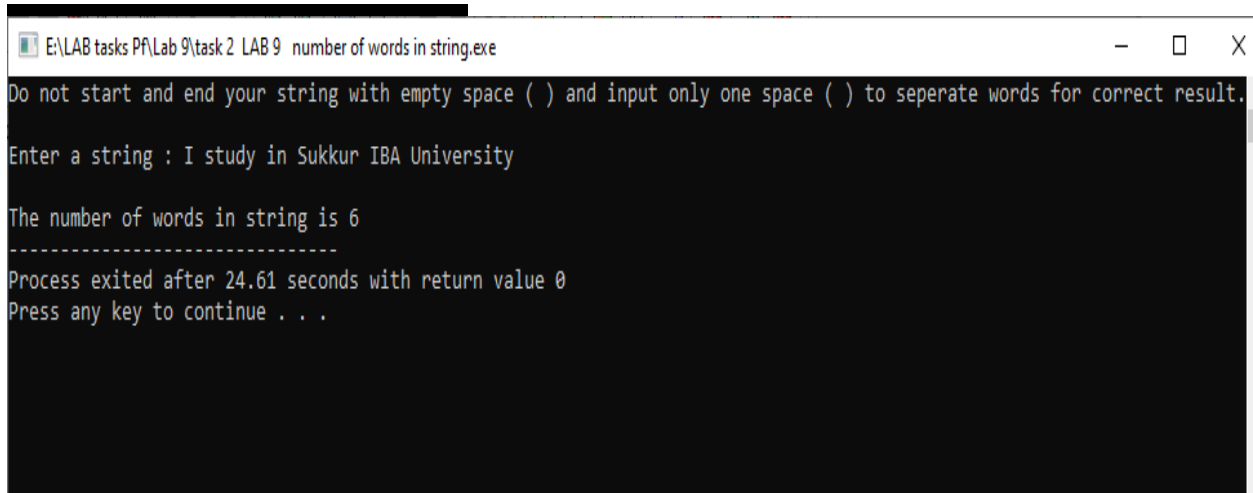
    cout<<"Do not start and end your string with empty space ( ) and input
only one space ( ) to sepearate words for correct result.";

    cout<<"\nEnter a string : ";
    getline(cin, line);
    int result=Findwords(line);
    cout<<endl<<"The number of words in string is "<<result;

return 0;
}

int Findwords (string line)
{
    int word=1;
    for(int i=0; i<line.length(); i++)
    {
        if(line[i]==' ')
            word+=1;
    }
    return word;
}
```

OUTPUT



```
E:\LAB tasks PF\Lab 9\task 2 LAB 9 number of words in string.exe
Do not start and end your string with empty space ( ) and input only one space ( ) to seperate words for correct result.
Enter a string : I study in Sukkur IBA University
The number of words in string is 6
-----
Process exited after 24.61 seconds with return value 0
Press any key to continue . . .
```

TASK 3.

INPUT


```
#include<iostream>
#include<string>
using namespace std;
int main ()
{
    string number, network;

    cout<<"The accepted networks are only (0300/0315/0333/0345) others are
not accepted";

    cout<<"\n\nEnter a phone number included dash like (0300-1234567) : ";
    getline(cin, number);

    network=number.substr(0,4);
    if(network=="0300")
        cout<<"\nNetwork is Moblink. ";
    else if(network=="0333")
        cout<<"\nNetwork is Ufone. ";
    else if(network=="0315")
        cout<<"\nNetwork is Zong. ";
    else if(network=="0345")
        cout<<"\nNetwork is Telenor. ";
    else
        cout<<"\nThe network "<<network<<" does't match";
    return 0;
}
```

OUTPUT

 E:\LAB tasks Pf\Lab 9\task 3 LAB 9 Find Network.exe

The accepted networks are only (0300/0315/0333/0345) others are not accepted

Enter a phone number included dash like (0300-1234567) : 0315-5940784

Network is Zong.

Process exited after 22.28 seconds with return value 0

Press any key to continue . . .

TASK 4 .

INPUT

```
#include<iostream>
#include<string>
using namespace std;

int main ()
{
    string email,Firstname,Lastname;


    cout<<"Enter your First name : ";
    getline(cin, Firstname);

    cout<<"Enter your Last name : ";
    getline(cin, Lastname);

    email=Firstname+"."+Lastname+"@iba-suk.edu.pk";
    cout<<"\nYour Email Address is : "<<email;

    return 0;
}
```

OUTPUT

 E:\LAB tasks Pf\Lab 9\task 4 LAB 9 write email adress.exe

```
Enter your First name : mushtaque
```

```
Enter your Last name : ali
```

```
Your Email Address is : mushtaque.ali@iba-suk.edu.pk
```

```
-----
```

```
Process exited after 8.755 seconds with return value 0
```

```
Press any key to continue . . .
```


TASK 5.

INPUT

```
#include<iostream>
#include<string>
using namespace std;
string my_lower(string input);
int main ()
{
    string input;
    cout<<"Enter string value : ";
    getline(cin,input);

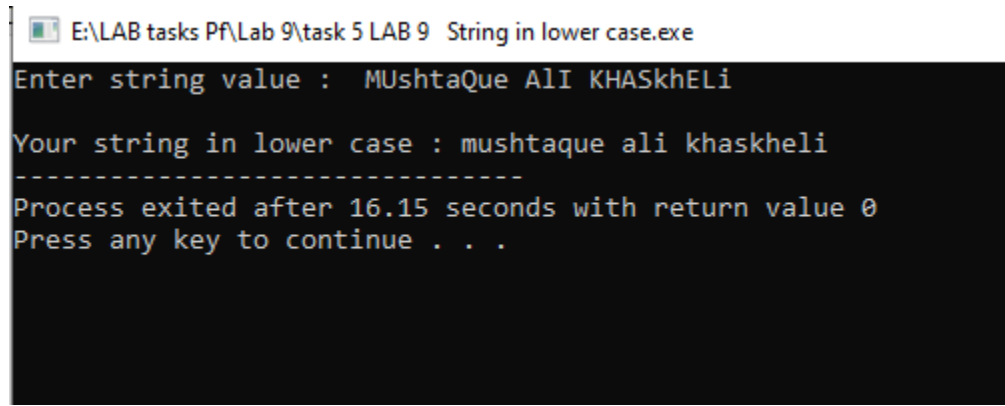
    string LowerCase=my_lower(input);
    cout<<"\nYour string in lower case : "<<LowerCase;

return 0;
}

string my_lower(string input)
{
    string LowerCase;
    for(int i=0; i<input.length(); i++)
    {
        if(input[i]>=65 && input[i]<97)
        {
            input[i]+=32; // because different b/w small and capital
letters is 32
            LowerCase+=input[i];
        }
    }
}
```

```
        else  
        LowerCase+=input[i];  
    }  
    return LowerCase;  
}
```

OUTPUT



The screenshot shows a Windows command prompt window titled "E:\LAB tasks Pf\Lab 9\task 5 LAB 9 String in lower case.exe". The user enters the string "MUShtaQue ALI KHASKhELi". The program outputs "Your string in lower case : mushtaque ali khaskheli". Below this, it shows "Process exited after 16.15 seconds with return value 0" and "Press any key to continue . . .".

```
E:\LAB tasks Pf\Lab 9\task 5 LAB 9 String in lower case.exe  
Enter string value :  MUShtaQue ALI KHASKhELi  
  
Your string in lower case : mushtaque ali khaskheli  
-----  
Process exited after 16.15 seconds with return value 0  
Press any key to continue . . .
```

TASK 6.

INPUT

```
#include<iostream>
#include<string>
using namespace std;
string my_upper(string input);
int main ()
{
    string input;
    cout<<"Enter string value : ";
    getline(cin,input);

    string UpperCase=my_upper(input);
    cout<<"\nYour string in Upper case : "<<UpperCase;


return 0;
}

string my_upper(string input)
{
    string UpperCase;
    for(int i=0; i<input.length(); i++)
    {
        if(input[i]>=97 && input[i]<=122) // a=97 , z=122
        {
```

```
        input[i]-=32; // because different b/w small and
capital letters in ASCII code is 32
        UpperCase+=input[i];
    }
    else
        UpperCase+=input[i];
    }

    return UpperCase;
}
```

OUTPUT

 E:\LAB tasks Pf\Lab 9\task 6 LAB 9 String in Upper case.exe

```
Enter string value : Mushtaque Ali Khaskheli
Your string in Upper case : MUSHTAQUE ALI KHASKHELI
-----
Process exited after 33.04 seconds with return value 0
Press any key to continue . . .
```

Task 7.

Input

```
#include<iostream>
#include<string>
using namespace std;
int main ()
{
    string input, arr, arr2;
    cout<<"Enter string value :  ";
    getline(cin,input);


    for (int i=0; i<input.length(); i++)
        arr+=input[i];

    for(int j=input.length()-1; j>=0; j--)
        arr2+=input[j];


    if(arr==arr2)
        cout<<"\nIt is Palindrome Series";
    else
        cout<<"\nIt's not a Palindrome Series";

    return 0;
}
```

Output

 E:\LAB tasks Pf\Lab 9\task 7 LAB 9 Plindrome series.exe

```
Enter string value : refer
It is Palindrome Series
-----
Process exited after 4.066 seconds with return value 0
Press any key to continue . . .
```

 E:\LAB tasks Pf\Lab 9\task 7 LAB 9 Plindrome series.exe

```
Enter string value : Mushtaque
It's not a Palindrome Series
-----
Process exited after 5.522 seconds with return value 0
Press any key to continue . . .
```

The End