

KHUSHBU PATEL (150034)

C++ FINAL ASSIGNMENT

SET : 2

QUE : 2)

Code:

```
#include<iostream>
#include<string>
using namespace std;
class charinput {
    public:
        string str="";
        void add(char a) {
            str=str + a;
        }
};
class numinput : public charinput {
    public:
        string str2="";
        void add(char b)
        {
            str2=str2 + b;
        }
    void getvalue()
    {
        cout<<str2;
        cout<<str;
```

```

    }
};

int main() {
    numinput np,np2;
    np.add('1');
    np.add('2');
    np.getvalue();
    cout<<"\n";
    np2.charinput::add('a');
    np2.charinput::add('b');
    np2.getvalue();
    return 0;
}

```

OUTPUT :

```

khushbu@khushbu-VirtualBox:~/backup/c++_assign$ g++ c++_assign_que2.cpp
khushbu@khushbu-VirtualBox:~/backup/c++_assign$ ./a.out
12
abkhushbu@khushbu-VirtualBox:~/backup/c++_assign$

```

QUE : 3)

CODE:

```

#include <iostream>
using namespace std;
int b=0;
void occurence(string a, int len)
{
    string str;
    for(int k=0;k<len;k++)

```

```

{
    str = a.substr(k,2);
    if(str=="01")
    {
        b++;
    }
}

```

```

}

int main()
{
    int count=0;
    string a;
    cin>>a;
    int len = a.length();
    occurence(a,len);
    count+=b;
    b=0;
    for(int i=0;i<len-2;i++){
        for(int j=i+2;j<len;j++){
            string str = a;
            char x;
            x = str[i];
            str[i] = str[j];
            str[j] = x;
            if(str!=a){
                occurence(str,len);
            }
        }
    }
}

```

```

        count+=b;

        b=0;

    }

}

}

cout<<"\n 01 occurence in string : "<<count<<endl;

return 0;

}

```

OUTPUT :

```

Find Occurrence: 2
khushbu@khushbu-VirtualBox:~/backup/c++_assign$ g++ q3.cpp
khushbu@khushbu-VirtualBox:~/backup/c++_assign$ ./a.out
00100

01 occurence in string : 2
khushbu@khushbu-VirtualBox:~/backup/c++_assign$

```

QUE : 7)

CODE:

```

#include<iostream>

using namespace std;

int main()

{

    int length , breadth;

    int i,j;

    cout<<"ent the length--";

    cin>>length;

    cout<<"ent the breadth--";

    cin>>breadth;

    for(i=2;i<length;i++)

    {

```

```

        if(length%i==0)
        {
            cout<<"num1 ="<<i<<endl;
            break;
        }
    }
    for(j=i+1;j<breadth;j++)
    {
        if(breadth%j==0)
        {
            cout<<"num2 ="<<j<<endl;
            break;
        }
    }

    cout<<"minimum number of pieces =="<<i*j<<endl;
    return 0;
}

```

OUTPUT :

```

khushbu@khushbu-VirtualBox:~/backup/c++_assign$ ./a.out
ent the length--10
ent the breadth--15
num1 =2
num2 =3
minimum number of pieces ==6
khushbu@khushbu-VirtualBox:~/backup/c++_assign$

```