

Task 1:

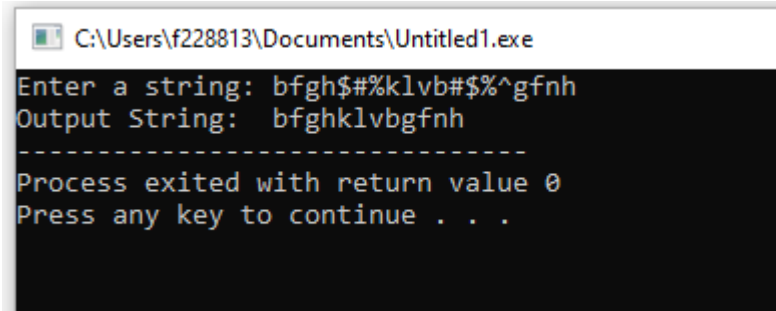
```
#include <iostream>
#include <string>
using namespace std;

int main() {
    string str;
    string temp = " ";

    cout << "Enter a string: ";
    getline(cin, str);

    for (int i = 0; i < str.size(); ++i)
    {
        if (str[i] > 'a' && str[i] < 'z' || str[i] > 'A' && str[i] < 'Z' )
        {
            temp = temp + str[i];
        }
    }

    str = temp;
    cout << "Output String: " << str;
    return 0;
}
```



```
C:\Users\f228813\Documents\Untitled1.exe
Enter a string: b fgh$##%klvb#$%^gfnh
Output String:  b fghklvb gfnh
-----
Process exited with return value 0
Press any key to continue . . .
```

Task 2:

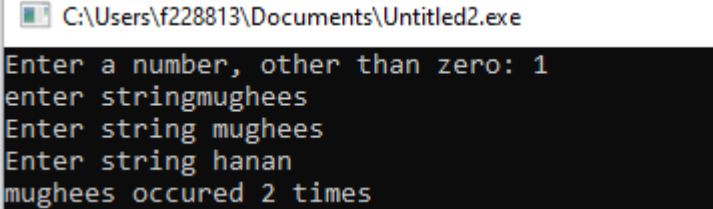
```
#include <iostream>
using namespace std;
int main()
{
```

```

int num=0, prev=0, count=1;
string str,temp;
cout<<"Enter a number, other than zero: ";
cin>>num;
cout<<"enter string";
cin>>str;
prev = num;
temp=str;
while(num != 0)
{
cout<<"Enter string ";
cin>>str;
if(str==temp)
count++;
else
{
cout<<temp<<" occured "<<count<<" times"<<endl;
count=1;
}
temp = str;
}

return 0;
}

```



```

C:\Users\f228813\Documents\Untitled2.exe
Enter a number, other than zero: 1
enter stringmughees
Enter string mughees
Enter string hanan
mughees occured 2 times

```

Or

```

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

int main()

```

```

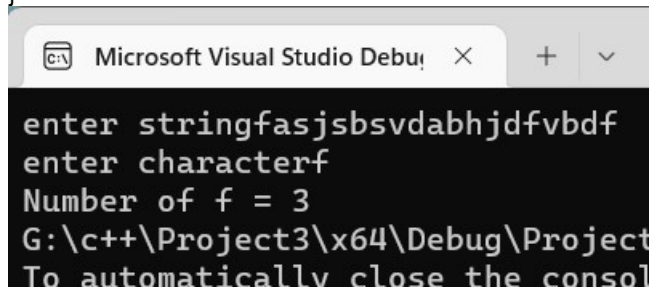
{
    int count = 0;
    string str;
    cout << "enter string";
    cin >> str;
    char ch;
    cout << "enter character";
    cin >> ch;

    for (int i = 0; i < str.length(); i++)
    {
        if (str[i] == ch)
        {
            ++count;
        }
    }

    cout << "Number of " << ch << " = " << count;

    return 0;
}

```



Task 3:

```

#include<iostream>
#include <string>
using namespace std;
int main()
{
    string str, temp = "";
    cout << "enter string";
    getline(cin, str);
    char chr;
    for (int i = 0; i < str.length(); i++)
    {
        if (str[i] == '.')
            if (str[i + 1] > 'a' && str[i + 1] < 'z')
            {
                chr = str[i + 1];
                int num;
            }
    }
}

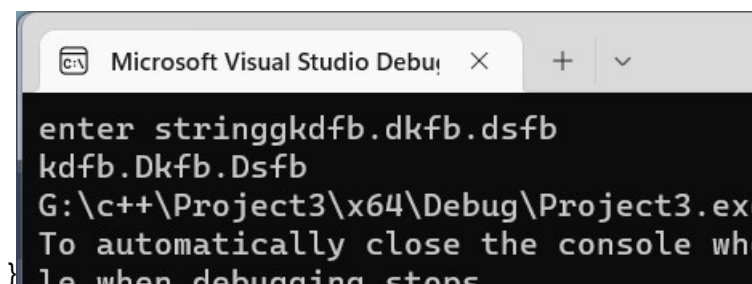
```

```

        num = chr;
        num = num - 32;
        chr = num;
        str[i + 1] = chr;

    }
    cout << str[i + 1];
    if (str[i] >= 'a' && str[i] <= 'z')
    {
        if (str[i + 1] >= 'A' && str[i + 1] <= 'Z')
        {
            str.insert(i + 1, " ");
        }
    }
}
}

```



Task 4:

```
#include <iostream>
```

```
#include <string>
```

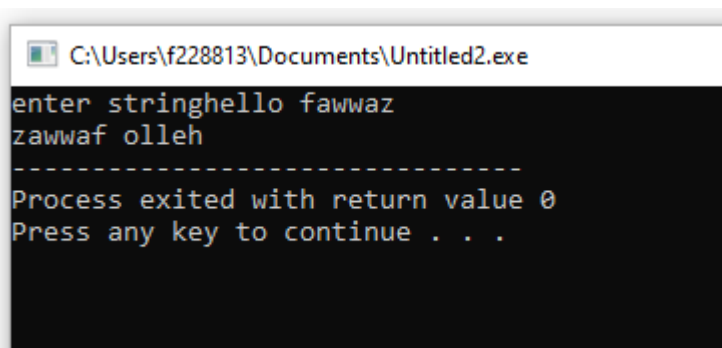
```
using namespace std;
```

```
int main()
```

```

{
string str;
string temp="";
cout<<"enter string";
getline(cin,str);
for(int i=str.length()-1;i >=0;i--)
{
cout<<str[i];
}
}

```



```

C:\Users\f228813\Documents\Untitled2.exe
enter stringhello fawwaz
zawwaf olleh
-----
Process exited with return value 0
Press any key to continue . . .

```

task 5:

```

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

int main() {
string str;
string temp = "";

cout << "Enter a string: ";
getline(cin, str);


for (int i = 0; i < str.size(); ++i)
{
if (str[i] >='A' && str[i] <='Z' )
{
char ch=str[i];

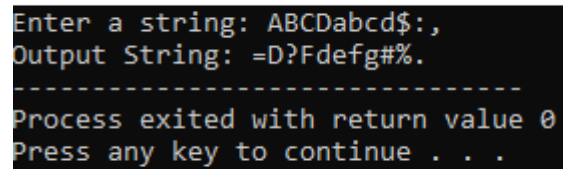
```

```
int num=ch;
if(num%2==0)
{
num+=2;
str[i]=num;
}
else if(num%2!=0)
{
num -= 4;
str[i]=num;
}
}
if (str[i] >='a' && str[i] <='z' )
{
char ch=str[i];
int num=ch;
num += 3;
str[i]=num;
}
if(str[i]=='$')
{temp=str[i];
str[i]='#';
}
if(str[i]==',')
{
temp=str[i];
str[i]='.';
}
if(str[i]==':')
{
temp=str[i];
str[i]='%';
```

```
}  
}
```

```
cout << "Output String: " << str;  
return 0;  
}
```

 C:\Users\f228813\Documents\Untitled1.exe



```
Enter a string: ABCDabcd$.,  
Output String: =D?Fdefg#%.  
-----  
Process exited with return value 0  
Press any key to continue . . .
```

Task 6:

```
#include <iostream>
```

```
#include<string>
```

```
using namespace std;
```

```
int main() {
```

```
string str;
```

```
string temp = "";
```

```
cout << "Enter a string: ";
```

```
getline(cin, str);
```

```
for (int i = 0; i < str.size(); ++i)
```

```
{
```

```
if (str[i] >='A' && str[i] <='Z' )
```

```
{
```

```
char ch=str[i];
```

```
int num=ch;
```

```
if(num%2==0)
```

```
{
```

```
num-=2;
```


```
str[i]=num;
```

```

}
else if(num%2!=0)
{
num += 4;
str[i]=num;
}
}
if (str[i] >='a' && str[i] <='z' )
{
char ch=str[i];
int num=ch;
num -= 3;
str[i]=num;
}
if(str[i]=='#')
{temp=str[i];
str[i]='$';
}
if(str[i]=='.')
{
temp=str[i];
str[i]=',';
}
if(str[i]=='%')
{
temp=str[i];
str[i]=': ';
}
}

cout << "Output String: " << str;
return 0;
}

```


 C:\Users\f228813\Documents\Untitled1.exe

Enter a string: dfghDFGH

Output String: acdeBDKF

Process exited with return value 0

Press any key to continue . . .