Ex No: 1	Implementation of Classical Encryption Techniques
Date:09/08/2021	

1. A. Write a program that performs Classical Encryption of Plain text to Cipher text for following cipher mechanisms.

    a. Additive Cipher

1. B. Write a program that performs Classical Encryption of Cipher text to Plain text for following cipher mechanisms.

    a. Additive Cipher

Aim:

- To understand the working of Additive Cipher
- Implement cipher mechanism as a program

Understanding & Implementation:

- Input : String plaintext
- Input : An integer between 0 and 25 representing the right shift of the character or, an integer between -25 and -1 representing the left shift of the characters.
- Traverse each character in the plaintext one at a time.
- Transform the given character depending on encryption or decryption.
- Print the ciphertext**.**

A. Plain text to Cipher text

PROGRAM :

```
#include<stdio.h>
 #include<string.h>

 int main(){

int key;

char pl_text[100];
scanf("%s",&pl_text);

printf("%s",pl_text);
```

scanf("%d",&key);

printf(“%d”, key) ;

for(int i=0;i<strlen(pl_text);i++){

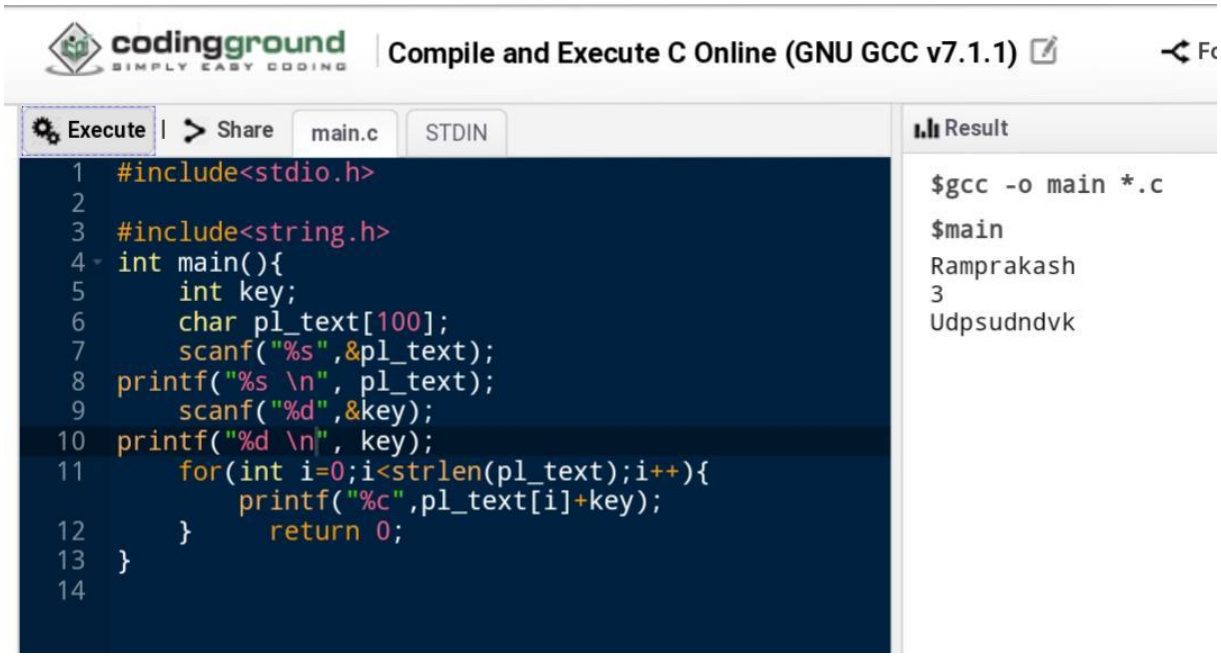
printf("%c",pl_text[i]+key);

}

return 0;

}

OUTPUT:



B. Plain text to Cipher text

PROGRAM :

#include<stdio.h>

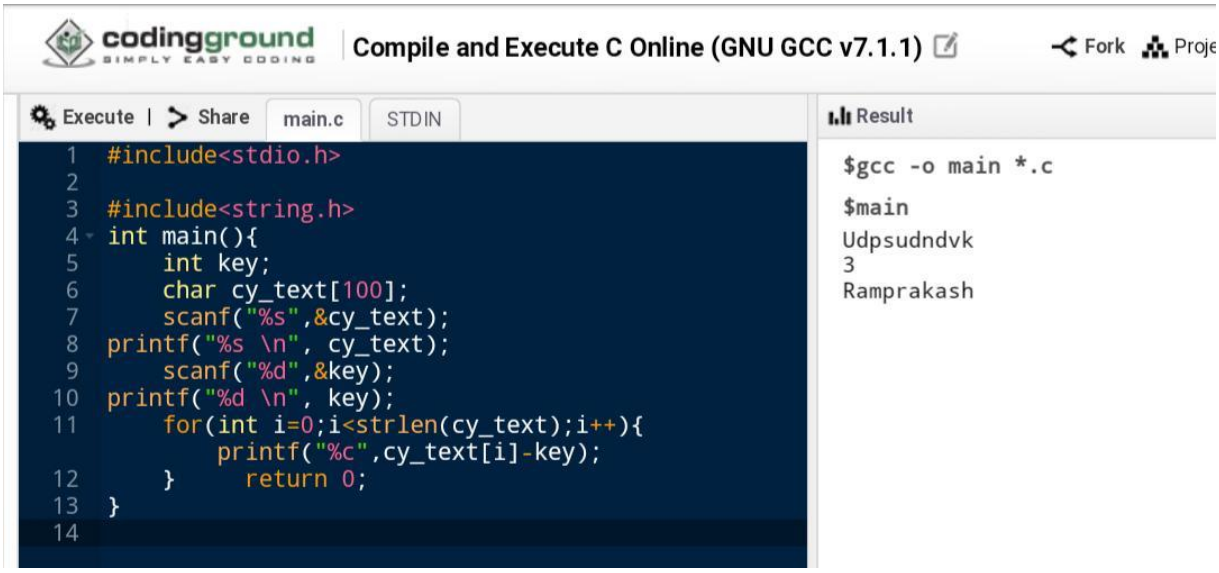
#include<string.h> +

int main(){

int key;

```
  char cy_text[100];
scanf("%s",&cy_text);
printf(“%s”, cy_text) ;
    scanf("%d",&key);
printf(“%d”, key) ;
  for(int i=0;i<strlen(cy_text);i++){
printf("%c",cy_text[i]-key);
   }
return 0;
}
```

OUTPUT:



Result:

*The implementation of cipher mechanism as a program was successfully Executed***.**

Evaluation Criteria		
Criteria	**Total Marks**	**Awarded Marks**

Preparation	**5**	
Program Interpretation	**10**	
Viva	**5**	
Total	**20**	