

**EXP NO :1**

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## **CAESAR CIPHER**

**Aim:** To implement encryption algorithm using Caesar Cipher technique.

### **Algorithm:**

- Step 1: Prompt the user to enter a message to encrypt (text) and the encryption key (key).
- Step 2: Iterate through each character in text, applying the Caesar Cipher encryption.
- Step 3: Print the encrypted message.

### **Program:**

```
#include<stdio.h>
> int main() {
char text[500];
int key;

printf("Enter a message to encrypt: ");
scanf("%s", text);


printf("Enter the key: ");
scanf("%d", &key);

for (int i = 0; text[i] != '\0'; ++i) {
char ch = text[i];

if ('a' <= ch && ch <= 'z')
ch = (ch - 'a' + key) % 26 + 'a';
else if ('A' <= ch && ch <= 'Z')
ch = (ch - 'A' + key) % 26 + 'A';
else if ('0' <= ch && ch <= '9')
```

```
ch = (ch - '0' + key) % 10 + '0';  
text[i] = ch;  
  
}  
  
printf("Encrypted message: %s", text);  
  
return 0;  
}
```

### Output:



```
/tmp/pQpD7RHcsp.o  
Enter a message to encrypt: varusha  
Enter the key: 3  
Encrypted message: yduxvkd  
  
=== Code Execution Successful ===
```

### Result:

Thus the encryption algorithm using Caesar Cipher technique is implemented successfully.