Program and Output

Program:

```
#include<stdio.h>
#include<string.h>
#include<conio.h>
#include<ctype.h>
void main()
{
  char plain[10],cipher[10];
  int key,i,length;
  int result;
  printf("\n Enter the plain text:");
  scanf("%s",plain);
  printf("\n Enter the key value:");
  scanf("%d",&key);
  printf("\n\n\t PLAIN TEXt:%s",plain);
  printf("\n\n\t ENCRYPTED TEXT:");
  for(i=o,length=strlen(plain);i<length;i++)</pre>
  {
    cipher[i]=plain[i]+key;
    if(isupper(plain[i])&&(cipher[i]>'z'))
    cipher[i]=cipher[i]-26;
    if(islower(plain[i])&&(cipher[i]>'z'))
    cipher[i]=cipher[i]-26;
    printf("%c",cipher[i]);
  printf("\n\n\t AFTER DECRYPTION :");
  for(i=o;i<length;i++)</pre>
  {
```

```
plain[i]=cipher[i]-key;
if(isupper(cipher[i])&&(plain[i]<'A'))
plain[i]=plain[i]+26;
if(islower(cipher[i])&&(plain[i]<'a'))
plain[i]=plain[i]+26;
printf("%c",plain[i]);
}
getch();
}</pre>
```

Output:

```
| Picture | Pict
```