**PROGRAM-2**

**WAP to implement Monoalphabetic cipher in C++.**

#include<stdio.h>

#include<string.h>

#include<iostream>

using namespace std;

int main()

{

int i,j,a3,a4,a;

char a1[50],s1[100],a2[50],s2[100];

printf("Enter 0 for capital or 1 for Small latters\n");

scanf("%d",&a);

switch(a)

{

case 0:

{

for(i=0;i<26;i++)

{

a1[i]=i+65;

printf("%c",a1[i]);

}

printf("\nEnter values for each charater,26 characters\n");

cin>>a2;

printf("\nEnter the plain text,put'\_'in place of space\n");

cin>>s1;

a3=strlen(s1);

printf("\nThe cipher text is: ");

for(i=0;i<a3;i++)

{

for(j=0;j<26;j++)

{ if(s1[i]=='\_')

{printf(" ");i++;}

else if(s1[i]==a1[j])

printf("%c",a2[j]);}

} break;

}

case 1:

{ for(i=0;i<26;i++)

{

a1[i]=i+97;

printf("%c",a1[i]);

}

printf("\nEnter values for each character,26 characters\n");

cin>>a2;

printf("\nEnter the plain text,put '\_' in place of space\n");

cin>>s2;

a4=strlen(s2);

printf("\nThe cipher text is:");

for(i=0;i<a4;i++)

{

for(j=0;j<26;j++)

if(s2[i]=='\_')

printf(" ");

else

if(s2[i]==a1[j])

printf("%c",a2[j]);

}

}

}

return 0;

}

**OUTPUT-**

Enter 0 for capital or 1 for Small latters

0

ABCDEFGHIJKLMNOPQRSTUVWXYZ

Enter values for each charater,26 characters

CDEFGHIJKLMNOPQRSTUVWXYZAB

Enter the plain text,put'\_'in place of space

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The cipher text is: FGNJK VGEJPQNQIKECN WPKXGTUKVA

Process returned 0 (0x0) execution time : 46.647 s

Press any key to continue.

Enter 0 for capital or 1 for Small latters

1

abcdefghijklmnopqrstuvwxyz

Enter values for each character,26 characters

MNBVCXZASDFGHJKLPOIUYTREWQ

Enter the plain text,put '\_' in place of space

india

The cipher text is:SJVSM

Process returned 0 (0x0) execution time : 22.234 s

Press any key to continue.