

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 letters\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.