

PROGRAM-4

WAP to implement Zig-Zag cipher in C++.

```
#include <iostream>

#include <string.h>

#include <stdio.h>

#include <conio.h>

using namespace std;

int main()

{

char s[50],A[30],B[30];

int a=0,b=0;

cout <<"\nEnter plaintext: ";

gets(s);

int len=strlen(s),j=0;

for(int i=0;i<len;i++)

{

    if(i%2==0)

    {

        j=i;

        for(;j<len-1;j++)

            s[j] = s[j+1];

        if(i!=j)

        {

            s[j] = '\0';

            len--;

        }

    }

}
```

```

    }
}int n;

cout<<"\nEnter Key ";

cin>>n;

int x=strlen(s);
for(int i=0;i<x;i++)
{
    if(i%n==0)
        A[a++]=s[i];

    else
        B[b++]=s[i];

}

A[a]='\0';
B[b]='\0';

strcat(A,B);

cout<<"\nEncrypted text:\t";

puts(A);

getch();

return 0;

}

```

OUTPUT

Enter plaintext: india beats pakistan

Enter Key 3

Encrypted text: iiesktndabatpaisan