**CODE**

import java.util.\*;

public class bit\_stuffing

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.print("Enter the message:-");

String d1 = sc.nextLine();

String remaining = new String();

String output=new String();

int counter = 0;

for(int i=0;i<d1.length();i++)

{

if (d1.charAt(i)!='1' && d1.charAt(i)!='0')

{

System.out.println("Enter valid Binary values");

return;

}

//if character is not 1 or 0 enter it as INVALID//

if(d1.charAt(i) == '1')

{

counter++;

remaining = remaining + d1.charAt(i);

}

else

{

remaining = remaining + d1.charAt(i);

counter = 0;

}

if(counter == 5)

{

remaining = remaining + '0';

counter = 0;

}

}

System.out.println("Flag--> "+ d1);

String new1="|01111110 | "+remaining+" | 01111110|";

System.out.println("Stuffed data at intermediate site is:");

for(int k=0;k<=(28+d1.length());k++)

{

System.out.print("-");

}

System.out.println();

System.out.println(" "+new1);

for(int k=0;k<=(28+d1.length());k++)

{

System.out.print("-");

}

System.out.println();

counter=0;

for(int i=0;i<remaining.length();i++)

{

if(remaining.charAt(i) == '1')

{

counter++;

output = output + remaining.charAt(i);

}

else

{

output = output + remaining.charAt(i);

counter = 0;

}

if(counter == 5)

{

if((i+2)!=remaining.length())

{

output = output + remaining.charAt(i+2);

}

else

{

output=output + '1';

}

i=i+2;

counter = 1;

}

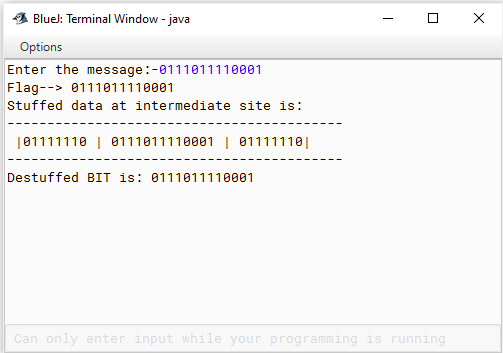
}

System.out.println("Destuffed BIT is: "+output);

}

}

**OUTPUT**

****