**Bitstuffing in Java:**

import java.util.\*;

public class BitStuffing

{

public static void main(String[] args)

{

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

Scanner sn=new Scanner(System.in);

String data = sn.nextLine();

String res = new String();

String out=new String();

int counter = 0;

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

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

{

System.out.println("Enter only Binary values!!!");

return;

}

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

{

counter++;

res = res + data.charAt(i);

}

else

{

res = res + data.charAt(i);

counter = 0;

}

if(counter == 5)

{

res = res + '0';

counter = 0;

}

}

String inc=res;

System.out.println("The Message to be transfered: " +inc);

System.out.println("Sending Message....");

counter=0;

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

{

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

{

counter++;

out = out + res.charAt(i);

}

else

{

out = out + res.charAt(i);

counter = 0;

}

if(counter == 5)

{

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

out = out + res.charAt(i+2);

else

out=out + '1';

i=i+2;

counter = 1;

}

}

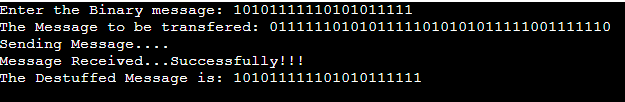
System.out.println("Message Received...Successfully!!!");

System.out.println("The Destuffed Message is: "+out);

}

}

**Output:**



**Character Stuffing.java:**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

Scanner k =new Scanner (System.in);

System.out.println("enter the string:\t");

String s=k.nextLine();

String str1;

String str2="";

int i,m,j;

m=s.length();

System.out.println("original data:"+s);

str1="dlestx";

for(i=0;i<=m-1;i++)

{

if((s.charAt(i)=='d')&&(s.charAt(i+1)=='l')&&(s.charAt(i+2)=='e'))

{

str1=str1+"dle";

}

str1=str1+s.substring(i,i+1);

}

str1=str1+"dleetx";

int p=str1.length();

System.out.println("transmitted data:"+str1);

for(i=6;i<p-6;i++)

{

if((str1.charAt(i)=='d')&&(str1.charAt(i+1)=='l')&&(str1.charAt(i+2)=='e')&&(str1.charAt(i+3)=='d')&&(str1.charAt(i+4)=='l')&&(str1.charAt(i+5)=='e'))

{

i=i+3;

}

str2=str2+str1.substring(i,i+1);

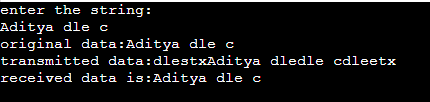
}

System.out.println("received data is:"+str2);

}

}

**Output:**

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