


PRACTICAL – 1(A)**AIM :Program for Convert Decimal into Binary.****Input:**

```
import java.util.*;
import java.io.*;
class dectobin
{
    public static void main(String args[]) throws IOException
    {
        int bin,dec,i=0,n,j;
        int[] t = new int[50];
        System.out.println("Enter Decimal Number:");
        InputStreamReader ir = new InputStreamReader(System.in);
        BufferedReader br = new BufferedReader(ir);
        String str = br.readLine();
        dec = Integer.parseInt(str);
        while(dec!=0)
        {
            n=dec%2;
            t[i]=n;
            i++;
            dec = dec/2;
        }
        for(j=i-1;j>=0;j--)
        {
            System.out.print(t[j]);
        }
    }
}
```

Output: C:\Windows\System32\cmd.exe


```
Microsoft Windows [Version 10.0.14393]
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C:\Users\yatri\Desktop\DCDR pract>javac dectobin.java

C:\Users\yatri\Desktop\DCDR pract>java dectobin
Enter Decimal Number:
25
11001
C:\Users\yatri\Desktop\DCDR pract>
```

PRACTICAL – 1(B)**AIM :Program for Convert Binary into Decimal.****Input:**

```
import java.util.*;
import java.io.*;
class bintodec
{
    public static void main(String args[]) throws IOException
    {
        int bin,dec=0,i,n,j=1;
        System.out.println("Enter binary Number:");
        InputStreamReader ir = new InputStreamReader(System.in);
        BufferedReader br = new BufferedReader(ir);
        String str = br.readLine();
        bin = Integer.parseInt(str);
        while(bin!=0)
        {
            n = bin%10;
            dec = dec + n*j;
            j=j*2;
            bin = bin/10;
        }
        System.out.println("Decimal value is:"+dec);
    }
}
```

Output: C:\Windows\System32\cmd.exe

```
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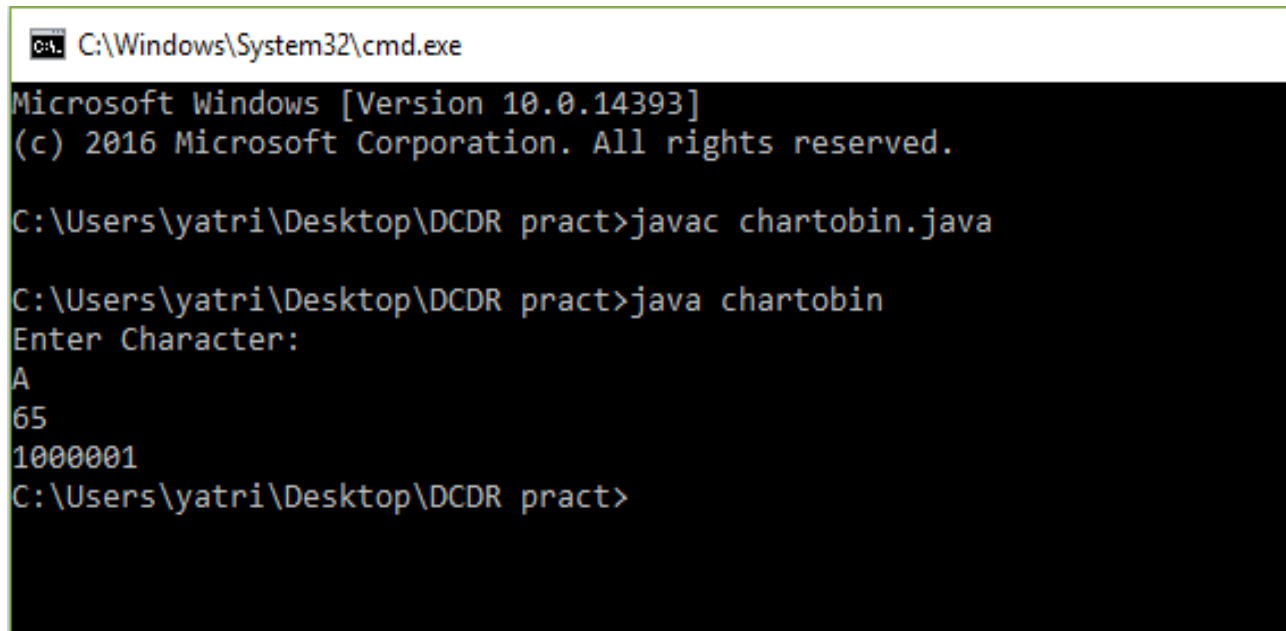
C:\Users\yatri\Desktop\DCDR pract>javac bintodec.java

C:\Users\yatri\Desktop\DCDR pract>java bintodec
Enter binary Number:
1111
Decimal value is:15

C:\Users\yatri\Desktop\DCDR pract>
```

PRACTICAL – 1(C)**AIM :Program for Convert Character into Binary.****Input:**

```
import java.util.*;
import java.io.*;
class chartobin
{
    public static void main(String args[]) throws IOException
    {
        int bin,i=0,n,j;
        int[] t = new int[50];
        System.out.println("Enter Character:");
        InputStreamReader ir = new InputStreamReader(System.in);
        BufferedReader br = new BufferedReader(ir);
        byte b = (byte)System.in.read();
        int dec = (int)b;
        System.out.println(dec);
        while(dec!=0)
        {
            n=dec%2;
            t[i]=n;
            i++;
            dec = dec/2;
        }
        for(j=i-1;j>=0;j--)
        {
            System.out.print(t[j]);
        }
    }
}
```

Output:

```
CA: C:\Windows\System32\cmd.exe
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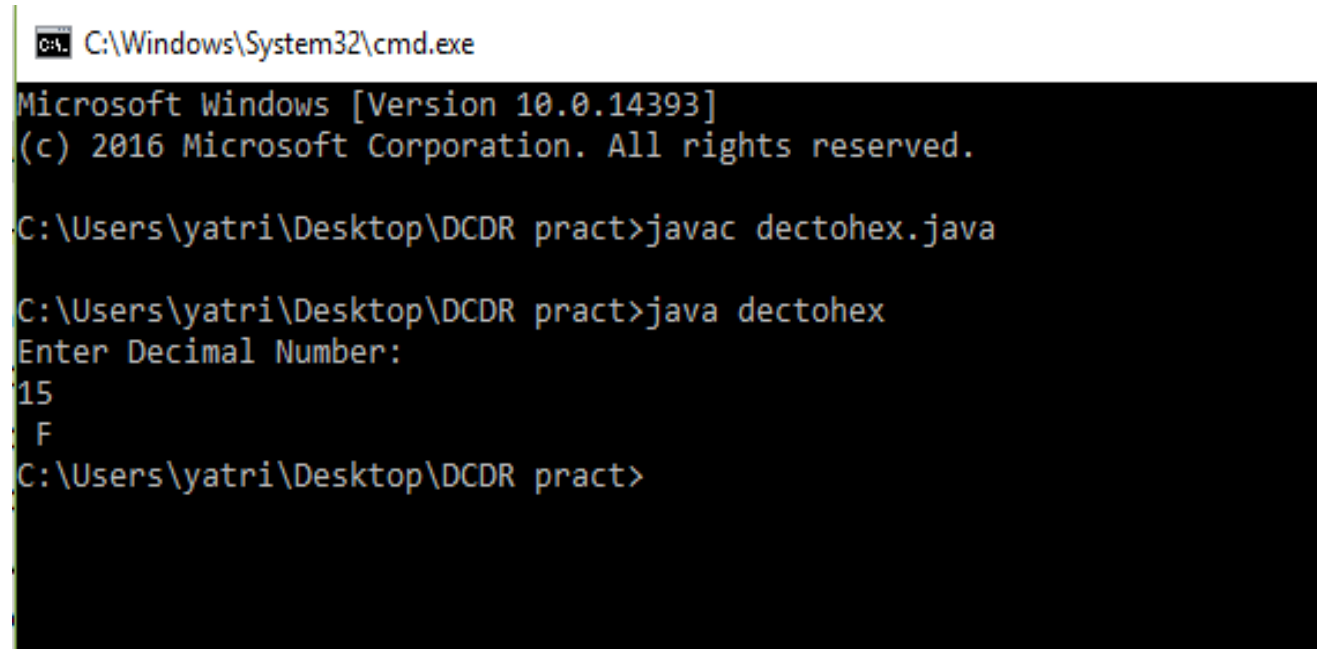
C:\Users\yatri\Desktop\DCDR pract>javac chartobin.java

C:\Users\yatri\Desktop\DCDR pract>java chartobin
Enter Character:
A
65
1000001
C:\Users\yatri\Desktop\DCDR pract>
```

PRACTICAL – 1(D)**AIM :Program for Convert Decimal into Hexadecimal.****Input:**

```
import java.util.*;
import java.io.*;
class dectohex
{
    public static void main(String args[]) throws IOException
    {
        int dec,rem,q,i,j=0;
        char[] hex = new char[100];
        System.out.println("Enter Decimal Number:");
        InputStreamReader ir = new InputStreamReader(System.in);
        BufferedReader br = new BufferedReader(ir);
        String str = br.readLine();
        dec = Integer.parseInt(str);
        while(dec!=0)
        {
            rem = dec%16;
            if(rem<10)
            {
                hex[j++] = (char)(48+rem);
            }
            else
            {
                hex[j++] = (char)(55+rem);
            }
            dec=dec/16;
        }
        for(i=j;i>=0;i--)
        {
```

```
        System.out.print(hex[i]);  
    }  
}  
}
```

Output:

```
C:\Windows\System32\cmd.exe  
Microsoft Windows [Version 10.0.14393]  
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C:\Users\yatri\Desktop\DCDR pract>javac dectohex.java  
  
C:\Users\yatri\Desktop\DCDR pract>java dectohex  
Enter Decimal Number:  
15  
F  
C:\Users\yatri\Desktop\DCDR pract>
```