```
package logicalprograms;
import java.util.Arrays;
public class CompareArrays {
       public static void main(String[] args)
              int ar1[]= {10,20,30};
              int ar2[= {40,90,30};
              int ar3[]= {10,20,30};
              System.out.println(Arrays.equals(ar1, ar2));
              System.out.println(Arrays.equals(ar1, ar3));
              System.out.println(Arrays.equals(ar3, ar2));
       }
package logicalprograms;
import java.util.Scanner;
public class EvenOddNumber {
       public static void main(String[] args) {
              // <u>num</u>/2 <u>rem</u>-->0-->even
//
              System.out.println(10%2);//0
              System.out.println(10/2);//5
//
              Scanner <u>sc</u>= new Scanner(System.in);
              System.out.println("Enter a number");
              int a = sc.nextInt();
              if(a\%2==0)
                     System.out.println("Given number is Even number");
              else {
```

```
System.out.println("Given number is Odd number");
             }
      }
package logical programs;
public class FactorialofNumber {
       public static void main(String[] args) {
             // 4!-->4*3*2*1=24
             int num=6;
             int num1=1;
             for(int i=num;i>=1;i--)//6,5,4,3,2,1
                     \frac{1}{100} num1=num1*i;//6*1=6; 6*5=30; 4*30=120; 3*120=360; 2*360=720;
             }
             System.out.println("Factorial of number is "+num1);
      }
package logicalprograms;
public class MultiPlicationWithoutOperator {
       public static void main(String[] args) {
             //5*4
              //5+5+5+5
             int a=5;
             int <u>b</u>=4;
              int sum=0;
             for(int i=1;i<=4;i++)//1->2
                     sum=sum+a;//0+5->5; 5+5-->10
             System.out.println("Multiplication is "+sum);
}
```

```
package logicalprograms;
public class NoOfWhiteSpaceInString {
       public static void main(String[] args) {
              String a=" P U N E";
              int count=0;
              for(int i=0;i<=a.length()-1;i++)
                     char myChar = a.charAt(i);
                     if(myChar=='')
                            count++;
                     }
              }
              System.out.println("Number of white space in "+a+" is "+count);
      }
package logicalprograms;
import java.util.Scanner;
public class PalindromeString {
       public static void main(String[] args)
              Scanner <u>sc</u>= new Scanner(System.in);
              System.out.println("Enter value of String");
              String a = sc.next();
              String b="";
              for(int i=a.length()-1;i>=0;i--)
                     b=b+a.charAt(i);
              }
```

```
System.out.println("Original Sring is "+a);
              System.out.println("Reverse String is "+b);
              if(a.equals(b))
                     System.out.println("String is in Palindrome");
              else {
                     System.out.println("String is not in Palindrome");
              }
       }
package logicalprograms;
import java.util.Scanner;
public class ReverseString {
       public static void main(String[] args)
       {
              Scanner <u>sc</u>= new Scanner(System.in);
              System.out.println("Enter the String");
              String a = sc.next();//original string
              String b="";//blank string
              for(int i=a.length()-1;i>=0;i--)
                     b=b+a.charAt(i);
              System.out.println("Original String is "+a);
              System.out.println("Reverse String is "+b);
       }
package logicalprograms;
import java.util.Scanner;
public class UserInput {
```

```
public static void main(String[] args)
{
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter value of a");
    int a = sc.nextInt();

    System.out.println("Enter value of b");
    int b = sc.nextInt();

    int sum = a + b;
    System.out.println("Sum is "+sum);
}
```