```
{
sum=sum+i;
System.out.println(i+" " +sum);
}
```

WAP to enter no. and calculate the factorial using for loop.

```
import java.io.*;
class fact
  {
  public static void main(String args[]) throws IOException
 {
  int num,i,fact=1;
  System.out.println("Enter the number :");
  num=Integer.parseInt(br.readLine());
  for(i=1;i<=num;i++)
  {
  fact=fact*i;
  }
System.out.println("Factorial=" +fact);
}
}
```

1
12
123
1234
12345

```
class loop5
  {
  public static void main(String args[])
  {
  int i,j;
  for(i=1;i<=5;i++)
   {
   for(j=1;j<=i;j++)
     {
    System.out.print(j);
     }
  System.out.println();
 }
}
}
```

1
22
333
4444
55555

```
class loop6
   {
   public static void main(String args[])
  {
  int i,j;
  for(i=1;i<=5;i++)
   {
   for(j=1;j<=i;j++)
    {
    System.out.print(i);
    }
 System.out.println();
 }
}
}
```

12345
1234
123
12
1

```
class loop7
   {
   public static void main(String args[])
  {
  int i,j;
  for(i=5;i>=1;i--)
   {
   for(j=1;j<=i;j++)
    {
    System.out.print(j);
    }
 System.out.println();
 }
}
}
```

1
12
123
1234
12345

```
class loop8
   {
   public static void main(String args[])
  {
  int i,j,k,l=1;
```

```
  for(i=5;i>=1;i--)
   {
   for(j=1;j<=i;j++)
    {
    System.out.print(" ");
    }
  for(k=1;k<=l;k++)
   {
   System.out.print(k);
   }
 l=l+1;
System.out.println();
}
}
}
```

```
        *
       ***
      *****
     *******
    *********
```

```
class loop9
   {
   public static void main(String args[])
  {
  int i,j,k,l=1;
  for(i=5;i>=1;i--)
   {
   for(j=1;j<=i;j++)
    {
    System.out.print(" ");
    }
  for(k=1;k<=l;k++)
   {
   System.out.print("*");
  }
 l=l+2;
System.out.println();
}
}
}
```

WAP to enter number and check no. is prime or not.

```
import java.io.*;
class prime
  {
 public static void main(String args[]) throws IOException
  {
   int num,i;
```

```
  BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
  System.out.println("enter the number :");
  num=Integer.parseInt(br.readLine());
  for(i=2;i<num;i++)
   {
   if(num%i==0)
   break;
   }
if(i==num)
  System.out.println(" Number is prime");
else
  System.out.println(" Number is not prime");
  }
}
```

WAP to enter number and reverse its digit.

```
import java.io.*;
class rev
  {
 public static void main(String args[]) throws IOException
  {
   int num,rev;
  BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
  System.out.println("enter the number :");
  num=Integer.parseInt(br.readLine());
   while(num>0)
    {
    rev=num%10;
    num=num/10;
    System.out.println(rev);
    }
  }
}
```

WAP to enter number and print sum of its digit

```
import java.io.*;
class revsum
  {
 public static void main(String args[]) throws IOException
  {
   int num,rev,sum=0;
  BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
  System.out.println("enter the number :");
  num=Integer.parseInt(br.readLine());
   while(num>0)
    {
    rev=num%10;
    sum=sum+rev;
    num=num/10;
    }
System.out.println("sum="+sum);
```

```
    }
  }
```

WAP to enter number and check no. is armstrong or not.

```
import java.io.*;
class arm
    {
  public static void main(String args[])  throws IOException
    {
     int num,rev,sum=0,temp;
     BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
     System.out.println("Enter the number :");
     Num=Integer.parseInt(br.readLine());
     temp=num;
     while(num>0)
       {
       rev=num%10;
       sum=sum+(rev*rev*rev);
       num=num/10;
       }
     if(temp==sum)
           System.out.println("Armstrong number");
     else
           System.out.println("Not armstrong number");
     }
   }
```

WAP to enter number and check no. is perfect or not.

```
import java.io.*;
class perfect
    {
  public static void main(String args[])  throws IOException
    {
     int num,i,sum=0,temp;
     BufferedReader br=new BufferedReader (new InputStreamReader (System.in));
     System.out.println("Enter the number :");
     num=Integer.parseInt(br.readLine());
     temp=num;
     for(i=1;i<=num/2;i++)
        {
         if(num%i==0)
             sum=sum+i;
        }
  if(temp==sum)
       System.out.println("Perfect number");
  else
       System.out.println("Not perfect number");
}}
```