```
//1.WAJP to print all the even numbers upto 100.
class WhileAssignment
{
  public static void main(String[] args)
  {
        System.out.println("Even number upto 100 are:");
        int i=1;
        while(i<=100)
        {
                if(i%2==0)
                {
                        System.out.println(i);
                }
                i++;
        }
  }
}


//2.WAJP to print all the numbers upto 150 which ends with 8.
class WhileAssignment
{
  public static void main(String[] args)
  {
        System.out.println("Number upto 150 which ends with 8 are:");
        int i=1;
        while(i<=150)
        {
                if(i%10==8)
                {
                        System.out.println(i);
                }
                i++;
        }
  }
}


//3.WAJP to print all the numbers upto 100 which is either divided by 7 or ends
with 7(7,14,17,21,27....).
class WhileAssignment
{
  public static void main(String[] args)
  {
        System.out.println("Number upto 100 which ends with 7 or divided by 7
are:");
        int i=1;
        while(i<=100)
        {
                if(i%10==7||i%7==0)
```

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


//4.WAJP to print all the numbers upto 1000 which is divided by 7 and also ends
with 7(7,77,.....).
class WhileAssignment
{
  public static void main(String[] args)
  {
        System.out.println("Number upto 100 which ends with 7 and also divided by 7
are:");
        int i=1;
        while(i<=1000)
        {
                if(i%10==7&&i%7==0)
                {
                        System.out.println(i);
                }
                i++;
        }
  }
}

//5.WAJP to count how many numbers are available upto 1000 which is divided by 7
and also ends with 7.
class WhileAssignment
{
  public static void main(String[] args)
  {
        System.out.println("Count of Number upto 100 which ends with 7 and  divided
by 7 are:");
        int i=1;
        int count=0;
        while(i<=1000)
        {
                if(i%10==7&&i%7==0)
                {
                        count++;
                }
                i++;
        }
        System.out.println(count);
  }
}
```

```
//6.Take and input from user and print all the factor of that number excluding the
number itself.
import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number:");
        int n=sc.nextInt();
        int i=1;
        while(i<n)
        {
                if(n%i==0)
                {
                System.out.println(i);
                }
                i++;
        }
  }
}

//7.Take and input from user and count how many factors are for that number
excluding the number itself.
import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number:");
        int n=sc.nextInt();
        int i=1;
        int count=0;
        while(i<n)
        {
                if(n%i==0)
                {
                count++;
                }
                i++;
        }
        System.out.println(count);
  }
}


//8.Take an input from user and print whether the number is prime or not.
import java.util.*;
```

```
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number:");
        int n=sc.nextInt();
        int i=2;
        int count=0;
        if(n==0||n==1)
        {
                System.out.println(n+" is not a prime number");
        }
        else
         {
                if(n==2)
                {
                System.out.println(n+" is a prime number");
                }
                else
                {
              while(i<n)
               {
                     if(n%i==0)
                      {
                        count++;
                      }
                     i++;
               }

                if(count>0)
                {
                 System.out.println(n+" is not a prime number");
                }
                else
                 {
                 System.out.println(n+" is a prime number");
                 }
           }
         }
  }
}
```

```
//9.Take an input from user and print number of digit present in the number.
import java.util.*;
class WhileAssignment
{
```

```
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number:");
        int n=sc.nextInt();
        int count=0;
        while(n>0)
        {
                int digit=n%10;
         if(digit>=0)
                {
                        count++;
                }
                n=n/10;
        }
        System.out.println("Number of digits are: "+count);
  }
}

//10.Take an input from user and print only even digit of the number.
import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number:");
        int n=sc.nextInt();
        System.out.println("Even digits present in the number are:");
        while(n>0)
        {
          int digit=n%10;
          if(digit%2==0)
                {
                        System.out.println(digit);
                }
                n=n/10;
        }
  }
}


//11.Take an input from user and count how many digits are even digit in the
number.
import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
```

```
        System.out.print("Enter the number:");
        int n=sc.nextInt();
        int count=0;
        System.out.println("Even digits present in the number are:");
        while(n>0)
        {
          int digit=n%10;
          if(digit%2==0)
                {
                        System.out.println(digit);
                        count++;
                }
                n=n/10;
        }
        System.out.println("Even digits in the number are: "+count);
  }
}

//12.Take an input from user and print all the digit which is either equals to 5 or
bigger than that.
import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number:");
        int n=sc.nextInt();
        int count=0;
        System.out.println("Digit which is equal to 5 or bigger than 5:");
        while(n>0)
        {
          int digit=n%10;
          if(digit>=5)
                {
                        System.out.println(digit);
                }
                n=n/10;
        }
  }
}


13.Take an input from user and count how many digits in the number either are
equals to 5 or bigger than that.
import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
```

```
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number:");
        int n=sc.nextInt();
        int count=0;
        //System.out.println("Digit which is equal to 5 or bigger than 5:");
        while(n>0)
        {
          int digit=n%10;
          if(digit>=5)
                {
                        //System.out.println(digit);
                        count++;
                }
                n=n/10;
        }
        System.out.println("no of required digits are: "+count);
  }
}



//14.Take an input from user and print factorial value of that number.
import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number:");
        int n=sc.nextInt();
        int i=1;
        int f=1;
        while(i<=n)
        {
                f=f*i;
                i++;
        }
        System.out.println("Factorial is: "+f);
  }
}


//15.Take two input from user a and b and print power of value of that numbers.
import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number a:");
```

```
        int a=sc.nextInt();
        System.out.print("Enter the number b:");
        int b=sc.nextInt();
        int i=1;
        int f=1;
        while(i<=b)
        {
                f=f*a;
                i++;
        }
        System.out.println("power is: "+f);
  }
}


//16.WAJP to print sum of 1st 100 natural numbers(1+2+3+4.....+99+100).
class WhileAssignment
{
  public static void main(String[] args)
  {
        int i=1;
        int f=0;
        while(i<=100)
        {
                f=f+i;
                i++;
        }
        System.out.println("Sum of 1st 100 natural number is: "+f);
  }
}


//Sum of N natural numbers.
/*import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number n:");
        int n=sc.nextInt();
        int i=1;
        int f=0;
        while(i<=n)
        {
                f=f+i;
                i++;
        }
        System.out.println("Sum of 1st "+n+" natural numbers is: "+f);
  }
```

```
}
*/
```

```
//17.WAJP to print sum of square of 1st 100 natural numbers.
class WhileAssignment
{
  public static void main(String[] args)
  {
        int i=1;
        int f=0;
        while(i<=100)
        {
                f=f+(i*i);
                i++;
        }
        System.out.println("Sum of Square of 1st 100 natural numbers is: "+f);
  }
}

//Sum of square of N natural numbers.
/*import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number n:");
        int n=sc.nextInt();
        int i=1;
        int f=0;
        while(i<=n)
        {
                f=f+(i*i);
                i++;
        }
        System.out.println("Sum of Square of 1st "+n+" natural numbers is: "+f);
  }
}
*/
```

```
18.WAJP to print sum of Cubes of 1st 100 natural numbers.
class WhileAssignment
{
  public static void main(String[] args)
```

```
  {
        int i=1;
        int f=0;
        while(i<=100)
        {
                f=f+(i*i*i);
                i++;
        }
        System.out.println("Sum of cube of 1st 100 natural numbers is: "+f);
  }
}


//Sum of cubes of 1st N natural numbers
import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number n:");
        int n=sc.nextInt();
        int i=1;
        int f=0;
        while(i<=n)
        {
                f=f+(i*i*i);
                i++;
        }
        System.out.println("Sum of cube of 1st  "+n+" natural numbers is: "+f);
  }
}


//19.Take an input from user and print sum of all the the digit of that number.
import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number to add the digit:");
        int n=sc.nextInt();
        int sum=0;
        while(n>0)
        {
          int digit=n%10;
           sum=sum+digit;
                n=n/10;
        }
```

```
        System.out.println("Sum of digits is: "+sum);
  }
}
```

20.Take a number from user and print sum of all the digits of the number which is odd.

```
import java.util.*;
class WhileAssignment
{
  public static void main(String[] args)
  {
    Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number to add the digit:");
        int n=sc.nextInt();
        int sum=0;
        while(n>0)
        {
          int digit=n%10;
            if(digit%2!=0)
                {
               sum=sum+digit;
                }
                n=n/10;
        }
        System.out.println("Sum of digits is which are odd: "+sum);
  }
}
```