```java
import java.util.*;
public class AdditioOfNDigits {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int n=5;
		int sum=0;
		for(int i=1;i<=n;i++){
			sum+=i;
		}
		System.out.println(sum);

	}

}
//1+2+3+4+5==15


import java.util.*;
public class MultiplesOf3and5 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int no=1;
		while(no<=20){
			if((no%3==0)|| (no%5==0))
			{
				System.out.print(no+" ");
			}
			no++;
		}

	}

}
//15
//3 5 6 9 10 12 15 18 20


import java.util.*;
public class ReverseANumber {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int n=1234;
		while(n>0){
			int rem=n%10;
			System.out.print(rem);
			n/=10;
```

```
		}

	}

}
//4321
```

```
import java.util.*;
public class NoOfDigits {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int n=1234;
		int c=0;
		while(n>0){
			n=n/10;
			c++;
		}
		System.out.print(c);

	}

}
//4
```

```
import java.util.*;
public class AdditionOfDigits {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int n=1234;
		int sum=0;
		while(n>0){
			int rem=n%10;
			sum=sum+rem;
			n/=10;
		}
		System.out.print(sum);

	}

}
//1+2+3+4==10
```

```java
import java.util.*;
public class FibonacciSeries {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int f=0,s=1;
		System.out.println(f);
		System.out.println(s);
		for(int i=0;i<8;i++){

			int t=f+s;
			System.out.print(t+" ");
			if(t==5){
				break;
			}
			f=s;
			s=t;
		}

	}

}
//0
//1
//1 2 3 5 8 13 21 34



import java.util.*;
//LCM ---LEAST COMMON MULTIPLE
// 3 6 9 12 15 18          //6 12 18 24 30

//GREATEST NUMBER POSSIBILITY
public class LCM {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int no1=3,no2=5;

		int max=no1>no2?no1 :no2;
		int lcm=0;
		//3 6 9 12 15 18          5 10 15 20 25

		while(true){

			if((max%no1==0) && (max%no2==0))
			{
```

```
                        lcm=max;
                        break;
                  }
                  max++;
            }
            System.out.print(lcm);

      }

}
//15



import java.util.*;
//GREATEST COMMON DIVISOR
//12              30
//12 6 3 2         30 15 10 6 5 3 2
//SMALLEST NUMBER POSSIBILITY
public class GCDOrHCF {

      public static void main(String[] args) {
            // TODO Auto-generated method stub
            int no1=12,no2=30;
            int min=no1<no2?no1:no2;
            while(min>=2){
                  if((no1%min==0)&&(no2%min==0))
                  {
                        System.out.print(min);
                        break;
                  }
            min--;
            }
      }

}
//6



import java.util.*;
public class SquareRootOfANumber {

      public static void main(String[] args) {
            // TODO Auto-generated method stub
            int no=36;
            int i=2;
```

```
		while(i<=no/2){
			if(no/i==i){
				System.out.print(i);
			}
		i++;
		}

	}

}
//6


import java.util.*;
public class ReverseANumber {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int n=1234;
		int rem=0;
		while(n>0){
			rem=(rem*10)+n%10;
			n/=10;
		}
		System.out.print(rem);

	}

}
//4321



import java.util.*;
public class Factorial {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int no=5;
		int fact=no;
		while(no>1){
			no--;
			fact=fact*no;
		}
		System.out.print(fact);


	}
```

```
}
//120
//5 4 3 2 1



import java.util.*;
public class SquareNumbers {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int i=1;
		while(i<5){
			System.out.println((int)Math.pow(i, i));
			i++;
		}

	}

}
//1
//4
//27
//256


import java.util.*;
// 2 odd nos
//  2 3 5 7 9 11 13 15 17 19 21 23
public class PrimeNos {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		System.out.print(2);
		int no=3;
		int i=2;
		int c=1;
		boolean isPrime=true;
		while(c<10){
			while(i<no){
				if(no%i==0){
					System.out.print("Not prime");
					isPrime=false;
				}
				i++;
			}
```

```
                if(isPrime=true){
                      System.out.print(" "+no+" ");
                      c++;
                }
            no=no+2;
            }

      }

}
//2 3  5  7  9  11  13  15  17  19



import java.util.*;
public class DecimalToBinary {

      public static void main(String[] args) {
            // TODO Auto-generated method stub

            int decimal=4;
            String binary="";

            while(decimal>0){

                  int rem=decimal%2;
                  binary=rem+binary;//concatenation  1 "00"
                  decimal/=2;
            }

            System.out.print(binary);

      }

}
//100


import java.util.*;
//1 0 1 0
//1* 2^3   0* 2^2   1* 2^1   0*2^0    -----2+8==10
public class BinaryToDecimal {

      public static void main(String[] args) {
            // TODO Auto-generated method stub
            int binary=1010;
            int decimal=0;
            int i=0;
```

```
            while(binary>0){

                  int rem= binary%10;
                  decimal+=rem*Math.pow(2, i);
                  binary/=10;
                  i++;
            }
            System.out.print(decimal);

      }

}
//10



import java.util.*;
public class AdditionUtilSingleDigits {

      public static void main(String[] args) {
            // TODO Auto-generated method stub

            int no=12345678;
            int total=0;
            total=no;
            while(total>9){
                  no=total;
                  total=0;
                  while(no>0){

                        int rem=no%10;
                        total=total+rem;
                        no/=10;
                  }


            }
            System.out.print(total);

      }

}
//9


import java.util.*;
public class ArmstrongNo {
```

```
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int n=153;
		int arm=0;
		int no2=n;
		while(n>0){
			int rem=n%10;
			arm=arm+(rem*rem*rem);
			n/=10;
		}
		System.out.println(arm);

		if(no2==arm){
			System.out.println("yes");
		}

	}

}
//153
//yes



import java.util.*;
//145
//1! + 4!+ 5! ===145
public class StrongNumber {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		int n=145;
		int sum=0;
		while(n>0){
			int rem=n%10;
			int no=rem;
			int fact=no;
			while(no>1){
				no--;
				fact=fact*no;
			}
			sum=sum+fact;
			n/=10;
		}
		System.out.print(sum);

	}
```

```
}
//145
```

```
import java.util.*;
public class NeonNumber {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		int no=9;
		int sum=0;

		int sq=no*no;
		while(sq>0){
			int rem=sq%10;
			sum=sum+rem;
			sq/=10;
		}
		if(sum==no){
			System.out.print("neon");
		}
		else{
			System.out.print(" not neon");
		}

	}

}
```

```
package array;
import java.util.*;
public class ReverseAnArray {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int a[]={10,20,30,40,50,60};
		int n=a.length;
		int i=0,j=n-1;

		while(i<j)
		{
```

```
                int t=a[i];
                a[i]=a[j];
                a[j]=t;
                i++;
                j--;
            }
            for(int k=0;k<n;k++){
                System.out.print(a[k]+" ");
            }

      }

}
//60 50 40 30 20 10



package array;
import java.util.*;
public class ArrayLeftShift {

      public static void main(String[] args) {
            // TODO Auto-generated method stub

            int a[]={10,20,30,40,50};
            int t=a[0];
            int i=0;
            while(i<a.length-1){
                a[i]=a[i+1];
                i++;
            }
            a[a.length-1]=t;

            for(int k=0;k<a.length;k++){
                System.out.print(a[k]+" ");
            }

      }

}
//20 30 40 50 10

//Linear Search
//How many times ele occurred
```

```java
package array;
import java.util.*;
public class ArrayRightShift {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		int a[]={10,20,30,40,50,60};
		int n=a.length;

		int t=a[n-1];

		for(int i=n-1;i>0;i--){
			a[i]=a[i-1];
		}
		a[0]=t;

		for(int i=0;i<n;i++){
			System.out.print(a[i]+" ");
		}

	}

}
//60 10 20 30 40 50
```

```java
package array;
import java.util.*;
public class ArrayLeftShiftTwice {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		int a[]={10,20,30,40,50};

		int t1=a[0];
		int t2=a[1];

		int i=0;
		while(i<a.length-2){
			a[i]=a[i+2];
			i++;
		}
		a[a.length-2]=t1;
		a[a.length-1]=t2;
```

```
		for(int k=0;k<a.length;k++){
			System.out.print(a[k]+" ");
		}

	}

}
//30 40 50 10 20



package array;
import java.util.*;
public class CopyAllEleOfArrInReverseOrder {

	public static void main(String[] args) {
		// TODO Auto-generated method stub'
		int a[]={10,20,30,40,50};
		int n=a.length;
		int b[]=new int[n];

		int i=0,j=n-1;
		while(i<n){
			b[i]=a[j];
			i++;
			j--;
		}

		for(int k=0;k<a.length;k++){
			System.out.print(b[k]+" ");
		}

	}

}
//50 40 30 20 10



package array;
import java.util.*;
public class CopyingOnlyNegative {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		int a[]={-5,8,-3,-2,10};
```

```
            int n=a.length;
            int c=0;

            for(int i=0;i<n;i++){
                  if(a[i]<0){
                        c++;
                  }
            }


            int b[]=new int[c];
            int j=0;
            for(int i=0;i<n;i++){
                  if(a[i]<0){
                     b[j++]=a[i];
                  }
            }

            for(int i=0;i<c;i++){
                  System.out.print(b[i]+" ");
            }
      }
      }
//-5 -3 -2
```