//package hello;

**import** java.util.\*;

**public** **class** Sortarraylist {

**public** **static** **void** main(String args[]){

//Creating a list of fruits

List<String> list1=**new** ArrayList<String>();

list1.add("Mango");

list1.add("Apple");

list1.add("Banana");

list1.add("Grapes");

//Sorting the list

Collections.*sort*(list1);

System.***out***.println(list1);

//Traversing list through the for-each loop

**for**(String fruit:list1)

System.***out***.println(fruit);

System.***out***.println("Sorting numbers...");

//Creating a list of numbers

List<Integer> list2=**new** ArrayList<Integer>();

list2.add(21);

list2.add(11);

list2.add(51);

list2.add(1);

//Sorting the list

Collections.*sort*(list2);

System.***out***.println(list2);

//Traversing list through the for-each loop

**for**(Integer number:list2)

System.***out***.println(number);

}

}

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Using different methods

//package hello;

**import** java.util.\*;

**public** **class** Arraylistexample1 {

**public** **static** **void** main(String args[]){

ArrayList<String> list=**new** ArrayList<String>();//Creating arraylist

list.add("Ravi");//Adding object in arraylist

list.add("Vijay");

list.add("Ravi");

list.add("Ajay");

System.***out***.println("Traversing list through List Iterator:");

//Here, element iterates in reverse order

ListIterator<String> list1=list.listIterator(list.size());

**while**(list1.hasPrevious())

{

String str=list1.previous();

System.***out***.println(str);

}

System.***out***.println("Traversing list through for loop:");

**for**(**int** i=0;i<list.size();i++)

{

System.***out***.println(list.get(i));

}

System.***out***.println("Traversing list through forEach() method:");

//The forEach() method is a new feature, introduced in Java 8.

list.forEach(a->{ //Here, we are using lambda expression

System.***out***.println(a);

});

System.***out***.println("Traversing list through forEachRemaining() method:");

Iterator<String> itr=list.iterator();

itr.forEachRemaining(a-> //Here, we are using lambda expression

{

System.***out***.println(a);

});

}

}

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Example of arraylist:

//package hello;

**import** java.util.\*;

**class** Student{

**int** rollno;

String name;

**int** age;

Student(**int** rollno,String name,**int** age){

**this**.rollno=rollno;

**this**.name=name;

**this**.age=age;

}

}

**public** **class** Arraylisteg {

**public** **static** **void** main(String args[]){

//Creating user-defined class objects

Student s1=**new** Student(101,"Sonoo",23);

Student s2=**new** Student(102,"Ravi",21);

Student s3=**new** Student(103,"Hanumat",25);

//creating arraylist

ArrayList<Student> al=**new** ArrayList<Student>();

al.add(s1);//adding Student class object

al.add(s2);

al.add(s3);

//Getting Iterator

Iterator itr=al.iterator();

//traversing elements of ArrayList object

**while**(itr.hasNext()){

Student st=(Student)itr.next();

System.***out***.println(st.rollno+" "+st.name+" "+st.age);

}

}

}

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