Assignment 3

1. Write a program which can store List of Integer values and print all the values using for loop.

Ans:

**package** assignment3;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** Assignment\_3\_Task1 {

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

{

List<Object> l = **new** ArrayList<Object>();

l.add(27);

l.add(29);

l.add(25);

l.add(21);

l.add(195);

l.add(311);

l.add(343);

l.add(352);

**int** size = l.size();

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

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

}

}

}

1. Write a program which can store List of Integer values and print all the values using for for loop.

Ans:

**package** assignment3;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** Assignment\_3Task\_2 {

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

List<Object> l = **new** ArrayList<>();

l.add(27);

l.add(29);

l.add(25);

l.add(23);

l.add(21);

l.add(19);

l.add(31);

l.add(33);

l.add(35);

**int** size = l.size();

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

**for** (**int** j = i; j <= i; j++) {

System.***out***.println(l.get(j));

}

}

}

}

1. Write a program which can store List of Integer values and print all the values using for iterator.

Ans:

**package** assignment3;

**import** java.util.ArrayList;

**import** java.util.Iterator;

**import** java.util.List;

**public** **class** Assignment\_3Task3 {

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

List<Object> l = **new** ArrayList<>();

l.add(27);

l.add(29);

l.add(25);

l.add(21);

l.add(195);

l.add(311);

l.add(343);

l.add(352);

Iterator<Object> s=l.iterator();

**while**(s.hasNext())

{

System.***out***.println(s.next());

}

}

}

1. Write a program which will print sum of all numbers which is stored in list.

Ans:

**package** assignment3;

**import** java.util.Arrays;

**import** java.util.List;

**import** java.util.Optional;

**public** **class** Assignment\_3Task\_4 {

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

// Write a program which will print sum of all numbers which is stored in list.

List<Integer> list=Arrays.*asList*(23,24,25,98);

Optional<Integer> sum = list.stream().reduce((a, b)->a+b);

System.***out***.println("Sum of all the numbers stored in the list is: "+sum.get());

}

}

1. Write a program which will pick the values from Array and Store them List.

Ans:

1. Create a list of numbers 33,44,55,66,77,88 and perform below operation

Remove second element from list using index

Remove second element from list using value

Add 90 at index 3

Get the length of list

Print all values from list using any values

Convert List into array.

Ans:

**package** assignment3;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** Assignment\_3Task\_6 {

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

// Create a list of numbers 33,44,55,66,77,88 and perform below operation

// Remove second element from list using index

// Remove second element from list using value

// Add 90 at index 3

// Get the length of list

// Print all values from list using any values

// Convert List into array.

List<Object> value=**new** ArrayList<>();

value.add("Sakthi");

value.add("Sathish");

value.add("Selva");

value.add("Dom");

value.add("Arun");

value.add(27);

value.add(1);

value.add(6);

value.add(5);

value.add(22);

System.***out***.println("Values in the list: "+value);

value.remove(1);

System.***out***.println("Values after removing second element from list using index: "+value);

value.remove("Selva");

System.***out***.println("Values after removing second element from list using value: "+value);

value.add(3, 90);

System.***out***.println("Values after adding 90 at index 3: "+value);

**int** length=value.size();

System.***out***.println("Length of the list: "+length);

Object values[]=**new** Object[value.size()];

value.toArray(values);

System.***out***.println("Converted value from list to array:");

**for**(Object list:values) {

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

}

}

}

1. Write a program which will display true if list contains Mobile else prints false

List  - Web Automation, API Automation, Mobile Automation.

Output – True

Ans:

**Package** assignment3;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** Assignment\_3Task\_7 {

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

// Write a program which will display true if list contains Mobile else prints false

// List - Web Automation, API Automation, Mobile Automation.

// Output â€“ True

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

list.add("Web Automation");

list.add("API Automation");

list.add("Mobile Automation");

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

String s=list.get(i);

**if**(s.contains("Mobile")) {

System.***out***.println("True");

**break**;

}

}

}

}