# Assignment 3

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

**package** assignment3;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** Task1 {

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

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

nums.add(12);

nums.add(12);

nums.add(34);

nums.add(45);

nums.add(77);

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

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

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

}

}

}

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

package assignment3;

import java.util.ArrayList;

import java.util.List;

// Task2: Write a program which can store List of Integer values and print all the values using forEach loop.

public class Task2 {

public static void main(String[] args) {

List<Integer> nums = new ArrayList<>();

nums.add(12);

nums.add(12);

nums.add(34);

nums.add(45);

nums.add(77);

System.out.println(nums);

for(Integer num:nums) {

System.out.println(num);

}

}

}

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

**package** assignment3;

**import** java.util.ArrayList;

**import** java.util.Iterator;

**import** java.util.List;

// Task3: Write a program which can store List of Integer values and print all the values using iterator.

**public** **class** Task3 {

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

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

nums.add(12);

nums.add(12);

nums.add(34);

nums.add(45);

nums.add(77);

nums.add(70);

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

Iterator<Integer> num = nums.iterator();

**while**(num.hasNext()) {

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

}

}

}

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

package assignment3;

import java.util.ArrayList;

import java.util.Iterator;

import java.util.List;

// Task4: Write a program which will print sum of all numbers which is stored in list.

public class Task4 {

public static void main(String[] args) {

int sum = 0;

List<Integer> nums = new ArrayList<>();

nums.add(12);

nums.add(12);

nums.add(34);

nums.add(45);

nums.add(77);

nums.add(70);

System.out.println(nums);

Iterator<Integer> num = nums.iterator();

while(num.hasNext()) {

sum = sum+num.next();

}

System.out.println("Sum of all values listed in list "+ sum);

}

}

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

**package** assignment3;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** Task5 {

// Task5: Write a program which will pick the values from Array and Store them List.

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

List<Integer> l1= **new** ArrayList<>();

**int** [] arr = **new** **int**[5];

arr[0] = 12;

arr[1] = 23;

arr[2] = 56;

arr[3] = 98;

arr[4] = 98;

System.***out***.println(arr.length);

**for**( **int** i =0;i<arr.length;i++) {

l1.add(arr[i]);

}

System.***out***.println(l1);

}

}

**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.**

**package** assignment3;

**import** java.util.ArrayList;

**import** java.util.Arrays;

**import** java.util.List;

**public** **class** Task7 {

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

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

nums.add(33);

nums.add(44);

nums.add(55);

nums.add(66);

nums.add(77);

nums.add(88);

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

// Removing value from 2nd index using index

nums.remove(2);

// Removing value from 2nd index using Value

nums.remove(Integer.*valueOf*(66));

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

// Adding 90 at 3rd index

nums.add(3, 90);

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

// printing all the values

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

// convert list into an array

**int** arr[] = **new** **int**[nums.size()];

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

arr[i] = nums.get(i);

System.***out***.println(arr[i]);

}

}

}

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

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

**Output – True**

**package** assignment3;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** Task6 {

// Task6: Write a program which will display true if list contains Mobile else prints false

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

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

**boolean** flag = **false**;

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

courses.add("Web Automation");

courses.add("API Automation");

courses.add("Mobile Automation");

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

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

**if**(courses.get(i).contains("Mobile")) {

flag = **true**;

}

**else** {

flag = **false**;

}

}

**if**(flag==**true**) {

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

}**else** {

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

}

}

}