**Collection Framework :**

**Array list**

**HashMap**

**package** digitest.app;

**import** java.util.ArrayList;

**public** **class** ArrayListDemo {

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

// **TODO** Auto-generated method stub

//Classname objname= new classname()

ArrayList<String> cars =**new** ArrayList<String>();

cars.add("Volvo"); // add() to add elements to array list

cars.add("BMW");

cars.add("Ford");

cars.add("Maruti");

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

System.***out***.println(cars.size()); // to find out number of elements in array

System.***out***.println(cars.get(0)); //get to retrieve elements from array list

cars.set(0, "Opel"); // to change item is array list

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

cars.remove(0); // remove the element

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

cars.clear();// to remove all elements from array

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

}

}

**package** digitest.app;

**import** java.util.ArrayList;

**public** **class** ArrayListDemo02 {

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

// **TODO** Auto-generated method stub

ArrayList<String> cars =**new** ArrayList<String>();

cars.add("Volvo"); // add() to add elements to array list

cars.add("BMW");

cars.add("Ford");

cars.add("Maruti");

/\*

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

{

System.out.println(cars.get(i));

}

\*/

**for** (String i:cars)

{

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

}

cars.forEach((n) -> *print*(n));

}

**public** **static** **void** print(String n)

{

System.***out***.println("car Name is " + n);

}

}

**package** digitest.app;

**import** java.util.ArrayList;

**import** java.util.Collection;

**import** java.util.Collections;

**public** **class** ArrayListDemo03 {

// primitive types int , float -- wrapper class

// Integer , Char - Character , Double , Boolean

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

// **TODO** Auto-generated method stub

ArrayList<Integer> myNumbers =**new** ArrayList<Integer>();

myNumbers.add(10);

myNumbers.add(35);

myNumbers.add(20);

myNumbers.add(8);

**for** (**int** i :myNumbers)

{

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

}

Collections.*sort*(myNumbers);

System.***out***.println("\*\*\*\*\* After sorting \*\*\*\*\*");

**for** (**int** i :myNumbers)

{

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

}

}

}

**package** digitest.app;

**import** java.util.HashMap;

**public** **class** HashMapDemo {

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

// **TODO** Auto-generated method stub

//key / value pair

HashMap<String,String> capitalCities= **new** HashMap<String ,String>();

//Classname objname= new classname()

capitalCities.put("India","Delhi");

capitalCities.put("USA","Washington DC");

capitalCities.put("UK","London");

capitalCities.put("Germany","Berlin");

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

System.***out***.println(capitalCities.get("India"));

System.***out***.println(capitalCities.get("USA"));

capitalCities.remove("UK");

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

System.***out***.println(capitalCities.size());

/\*

capitalCities.put("SIT","www.google.com");

capitalCities.put("UAT","www.google1.com");

capitalCities.put("Prod","www.google2.com");

\*/

capitalCities.clear();

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

}

}

**package** digitest.app;

**import** java.util.HashMap;

**public** **class** HashMapDemo02 {

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

// **TODO** Auto-generated method stub

HashMap<String,String> capitalCities= **new** HashMap<String ,String>();

//Classname objname= new classname()

capitalCities.put("India","Delhi");

capitalCities.put("USA","Washington DC");

capitalCities.put("UK","London");

capitalCities.put("Germany","Berlin");

**for** (String i:capitalCities.keySet())

{

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

}

System.***out***.println("\*\*\*\*\*Hash map Values \*\*\*\*");

**for** (String i:capitalCities.values())

{

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

}

System.***out***.println("\*\*\*\*\*Hash map Key --> Values \*\*\*\*");

**for** (String i:capitalCities.keySet())

{

System.***out***.println("" + i + "--> :"+ capitalCities.get(i));

}

}

}