Writing a program in Java to implement implicit and explicit type casting ?

Implicit :-

class test{

public static void main(String args[]){

byte b =12;

System.out.println("b = "+b);

short a = b;

System.out.println("a = "+a);

int c = b;

System.out.println("c = "+c);

}

}

Explicit :-

class test{

public static void main(String args[]){

int b =12;

System.out.println("b = "+b);

short a = (short)b;

System.out.println("a = "+a);

byte c = (byte)b;

System.out.println("c = "+c);

}

}

Writing a program in Java to implement access modifiers ?

public class test{

public static void main(String args[]) {

System.out.println(start(2,3));

}

private static int start(int a,int b) {

return a+b;

}

}

Writing a program in Java to verify implementations of methods and ways of calling a method  ?

public class test {

public static void main(String args[]) {

System.out.println(start(4,5));

}

public static int start(int a,int b) {

return a+b;

}

}

Writing a program in Java to verify the implementations of constructor types ?

public class test {

private int number;

test(){

System.out.println("Constructor Created");

number = 10;

}

public static void main(String args[]) {

test obj = new test();

System.out.println(obj.number);

}

}

Writing a program in Java to verify implementations of collections ?

import java.util.\*;

class test {

public static void main(String args[])

{

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

list.add("My");

list.add("name");

list.add("is");

list.add("Kartik");

Iterator itr = list.iterator();

while (itr.hasNext()) {

System.out.println(itr.next());

}

}

}

Writing a program in Java to verify implementations of maps?

import java.util.HashMap;

import java.util.Map;

public class demo {

public static void main(String args[]) {

HashMap<Integer,String> h = new HashMap<Integer,String>();

h.put(1, "My");

h.put(2, "name");

h.put(3, "is");

h.put(4, "Kartik");

for(Map.Entry<Integer, String> item : h.entrySet()) {

System.out.print(item.getKey() + " : ");

System.out.println(item.getValue());

}

}

}

Write a program to create strings and display the conversion of string to StringBuffer and StringBuilder?

public class test {

public static void main(String args[]) {

String s = "My ";

StringBuilder s1 = new StringBuilder("name is ");

StringBuffer s2 = new StringBuffer("Kartik");

System.out.print(s);

System.out.print(s1);

System.out.print(s2);

}

}

Writing a program in Java to verify implementation of arrays

import java.util.Scanner;

public class test {

public static void main(String args[]) {

Scanner sc = new Scanner(System.in);

int[] arr = new int[4];

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

arr[i] = sc.nextInt();

}

for(int item : arr) {

System.out.print(item + " ");

}

}

}

Writing a program in Java to verify implementations of regular expressions ?

import java.util.regex.\*;

public class test {

public static void main(String[] args)

{

String s = "name";

Pattern s1 = Pattern.compile(s);

System.out.println("Pattern : " + s1);

}

}