Q.1

**package** com.example.Ass2;

**import** java.util.Scanner;

**public** **class** Q1 {

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

Scanner sc=**new** Scanner(System.***in***);

System.***out***.print("Enter input: ");

**int** n=sc.nextInt();

**for**(**int** i=1; i<=n; i++) {

**for**(**int** j=1; j<=i;j++) {

System.***out***.print("\*");

}

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

}

sc.close();

}

}

Q.2

package com.example.Ass2;

//return count of duplicates

import java.util.Arrays;

import java.util.Scanner;

public class Q2 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter size:");

int size = sc.nextInt();

int arr[] = new int[size];

System.out.println("Array elements are:");

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

arr[i] = sc.nextInt();

}

System.out.println("Original array is: " + Arrays.toString(arr));

Arrays.sort(arr);

System.out.println("Sorted array is: " + Arrays.toString(arr));

int count = 0;

for(int i=0; i<arr.length-1; i++) {

if(arr[i]==arr[i+1]) {

count=count+1;

}

}

System.out.println("Duplicates in array are: "+count);

sc.close();

}

}

Q.5

**package** com.example.Ass2;

**import** java.util.Scanner;

**public** **class** Q5 {

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

Scanner sc = **new** Scanner(System.***in***);

**int** size = sc.nextInt();

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

System.***out***.print("arr = [");

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

arr[i] = sc.nextInt();

}

System.***out***.print("]");

// you need to swap elements in array

**int** start = 0;

**int** end = arr.length - 1;

**while** (start < end) {

**int** temp = arr[start];

arr[start] = arr[end];

arr[end] = temp;

start++;

end--;

}

System.***out***.println("Reversed array:");

System.***out***.print("[");

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

System.***out***.print(arr[i]+" ");

}

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

sc.close();

}

}