# Chapter 6 Practice Set Questions by Munawar

# Questions

1. Create an array of 5 floats and calculate their sum.

#### Solution

```
//Question 1
  float [] marks={34.f,55,76.3f,99.9f};
  float sum=0;
  for (float element:marks) {
      sum=sum+element;
  }
  System.out.println("The value of sum is "+sum);
```

2. Write a program to find out whether a given integer is present in an array or not.

#### Solution

```
//Question 2
int [] mark={34,55,76,99};
Scanner sc=new Scanner(System.in);
System.out.println("Enter the number please that you want to check :");
int num=sc.nextInt();
boolean isInArray=false;
for (int element:mark) {
   if (num==element) {
      isInArray=true;
      break;
   }
}
if (isInArray) {
    System.out.println("The value is present in array");
}
else {
    System.out.println("The value is not present in array");
}
```

3. Calculate the average marks from an array containing marks of are students in physics using for loop.

# Solution

```
// Question 3
  float [] std_marks={34.f,55,76.3f,99.9f};
  float sum=0;
  for (float element:std_marks) {
      sum=sum+element;
  }
  System.out.println("The value of average marks is "+sum/std_marks.length);
```

4. Write a program to add two matrices of size 2X3.

#### Solution

5. Write a program to reverse an array.

#### Solution

6. Write a program to find maximum number of element in an array.

### Solution

```
// Question 6
int [] maxArr={1,2,3,4,6,7,10,15,20,35};
int maximum=0;
for(int element:maxArr) {
    if(element>maximum) {
        maximum=element;
    }
}
System.out.println("The value of the Maximum element of an array is:
"+maximum);
```

7. Write a program to minimum number of element in an array.

## Solution

```
// Question 7
int [] minArr={1,2,3,4,6,7,10,15,20,35};
int min=35;
int newMax=Integer.MAX_VALUE;
int newMin=Integer.MIN_VALUE;
for(int e:minArr) {
    if(e<min) {
        min=e;
    }
}</pre>
System.out.println("The value of the minimum element of an array is: "+min);
```

8. What can be done using one type of loop can also be done using the other two types of loops True or False.

#### Solution

Answer is true.

9. Write a program to find the whether an array is sorted or not.

# Solution

```
// Question 8
int [] sortArr={1,3,5,7,8,9};
boolean isSorted=true;
for(int i=0;i<sortArr.length-1;i++){
    if(sortArr[i]>sortArr[i+1]){
        isSorted=false;
        break;
    }
}
if(isSorted) {
    System.out.println("The array is sorted:");
}
else {
    System.out.println("The give array is not sorted");
}
```

# Source code:

```
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        //Question 1

// float [] marks={34.f,55,76.3f,99.9f};

// float sum=0;

// for (float element:marks) {

// sum=sum+element;

// }

// System.out.println("The value of sum is "+sum);

// //Question 2

// int [] mark={34,55,76,99};
```

```
for(int i=0;i<sortArr.length-1;i++) {</pre>
```

```
if(sortArr[i]>sortArr[i+1]) {
        isSorted=false;
        break;
    }
    if(isSorted) {
        System.out.println("The array is sorted:");
    }
    else {
        System.out.println("The give array is not sorted");
    }
}
```

**Thank You**