Que1:

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

**int** arr[ ] = **new** **int**[ ]{1,2,3,4,5};

System.***out***.println("Element of an array");

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

{

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

}

}

}

Output: Element of an array

1 2 3 4 5

Que2:

**import** java.util.Arrays;

**public** **class** Array {

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

**int** a[ ] = **new** **int**[ ] {10, 20, 40, 50};

**int** b[ ] = **new** **int**[ ] {10, 20, 40, 50};

**if** (Arrays.*equals* (a, b))

System.***out***.println("Arrays are equal.");

**else**

System.***out***.println("Arrays are not equal.");

}

}

Output: Arrays are equal.

Que3: **import** java.util.Scanner;

**public** **class** Array {

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

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

System.***out***.println("Enter size of array: ");

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

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

System.***out***.println("Enter the elements of array: ");

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

arr[i] = sc.nextInt();

}

System.***out***.println("Give no.: ");

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

System.***out***.println("Indices of elements whose sum is: "+ num);

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

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

**if** ((arr[i] + arr[j]) == num && i != j) {

System.***out***.println(i+", "+j);

}

}

}

}

}

Output: Enter size of array:

5

Enter the elements of array:

11

22

33

9

8

Give no.:

20

Indices of elements whose sum is: 20

0, 3

Que4:**import** java.util.Scanner;

**public** **class** Array {

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

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

System.***out***.println("Enter size of array: ");

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

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

System.***out***.println("Enter the elements of array: ");

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

arr[i] = sc.nextInt();

}

System.***out***.print("Array : ");

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

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

}

System.***out***.println("\nReverse array : ");

**int**[] arr1 = **new** **int**[size];

**for**(**int** j = size-1, k=0; j >= 0 && k<size; j--, k++){

arr1[k]=arr[j];

}

**for**(**int** m=0; m<size; m++){

System.***out***.print(arr1[m] + " ");

}

}

}

Output: Enter size of array:

5

Enter the elements of array:

1

2

3

4

5

Array : 1 2 3 4 5

Reverse array :

5 4 3 2 1

Que5: **public** **class** Array{

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

**int** num[] = **new** **int**[]{11,55,88,89,94,99,15,2,36,1};

**int** smallest = num[0];

**int** largetst = num[0];

**for** (**int** i = 1; i < num.length; i++) {

**if** (num[i] > largetst)

largetst = num[i];

**else** **if** (num[i] < smallest)

smallest = num[i];

}

System.***out***.println("Largest Number is : " + largetst);

System.***out***.println("Smallest Number is : " + smallest);

}

}

Output: Largest Number is : 99

Smallest Number is : 1

Que6: **import** java.util.Scanner;

**public** **class** Array {

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

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

System.***out***.println("Enter size of an array: ");

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

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

System.***out***.println("Enter elements of array: ");

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

arr[i] = sc.nextInt();

}

**int** large = arr[0];

**int** secondlarge = Integer.***MIN\_VALUE***;

**int** thirdlarge = Integer.***MIN\_VALUE***;

**for**(**int** a = 0; a < size; a++ ) {

**if**(arr [a] > large) {

thirdlarge = secondlarge;

secondlarge = large;

large = arr[a];

}

**if**(arr[a] < large && secondlarge < arr[a]) {

thirdlarge = secondlarge;

secondlarge = arr[a];

}

**if**(arr[a] < secondlarge && thirdlarge < arr[a]) {

thirdlarge = arr[a];

}

}

System.***out***.println("Large no: "+large);

System.***out***.println("Secondlarge no: "+secondlarge);

System.***out***.println("Thirdlarge no: "+thirdlarge);

}

}

Output: Enter size of an array:

7

Enter elements of array:

24

54

31

16

82

45

67

Large no: 82

Secondlarge no: 67

Thirdlarge no: 54

Que7: **import** java.io.\*;

**public** **class** Array {

**static** **void** Merge(**int** arr1[], **int** arr2[], **int** n1, **int** n2, **int** arr3[]){

**int** i = 0, j = 0, k = 0;

**while** (i < n1 && j < n2) {

arr3[k++] = arr1[i++];

arr3[k++] = arr2[j++];

}

**while** (i < n1)

arr3[k++] = arr1[i++];

**while** (j < n2)

arr3[k++] = arr2[j++];

}

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

{

**int** arr1[] = { 23, 60, 94, 3, 102 };

**int** n1 = arr1.length;

**int** arr2[] = { 42, 16, 74 };

**int** n2 = arr2.length;

**int** arr3[] = **new** **int**[n1 + n2];

*Merge*(arr1, arr2, n1, n2, arr3);

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

**for** (**int** i = 0; i < n1 + n2; i++)

System.***out***.print(arr3[i] + " ");

}

}

Output: Merging array:

23 42 60 16 94 74 3 102

Que8: **import** java.util.Scanner;

**public** **class** Array {

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

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

System.***out***.println("Enter size of an array: ");

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

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

System.***out***.println("Enter the elements of array: ");

**for**(**int** i=0 ; i<N ; i++) {

arr[i] = sc.nextInt();

}

System.***out***.println("Array : ");

**for**(**int** i = 0; i<N; i++){

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

}

**float** avg;

**int** sum=0;

**for**(**int** i=0; i<=N; i++) {

sum= arr[i] + arr[i+1] + arr[i+2];

avg = sum/3;

System.***out***.println("average: "+ avg);

}

}

}

Output: Enter size of an array:

5

Enter the elements of array:

5

14

35

89

140

Array :

5 14 35 89 140

average: 18.0

average: 46.0

average: 88.0

Que9: **import** java.util.Scanner;

**public** **class** Array {

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

System.***out***.println("Enter no. of series: ");

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

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

**int** N;

System.***out***.println("Series are: ");

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

**if**(i % 2 == 0) {

N = i \* i;

System.***out***.print(" "+ N);

}

**else** {

N = i \* i \* i;

System.***out***.print(" "+ N);

}

}

}

}

Output: Enter no. of series:

6

Series are:

1 4 27 16 125 36

Que10: **import** java.util.Scanner;

**public** **class** Array {

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

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

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

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

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

Boolean bool\_ascending = **true**;

Boolean bool\_descending = **true**;

System.***out***.println("Enter the elements of array: ");

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

arr[i] = *sc*.nextInt();

}

System.***out***.print("Array : ");

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

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

}

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

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

**if** (arr[i] > arr[i-1]) {

bool\_descending = **false**;

**break**;

}

}

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

**if** (arr[i] < arr[i-1]) {

bool\_ascending = **false**;

**break**;

}

}

**if**(bool\_ascending)

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

**else** **if**(bool\_descending)

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

**else**

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

}

}

Output:

Enter size :

5

Enter the elements of array:

5

14

35

90

139

Array : 5 14 35 90 139

Ascending

Enter size :

5

Enter the elements of array:

88

67

35

14

-12

Array : 88 67 35 14 -12

descending

Enter size :

5

Enter the elements of array:

65

14

129

34

7

Array : 65 14 129 34 7

Random