**Day one assignment:**

1)

package com.sonata;

public class LargestNumber {

public static void main(String[] args)

{

int a=12, b=25, c=89, largest;

largest = c > (a > b ? a : b) ? c : ((a > b) ? a : b);

System.out.println("The largest number among a,b,c is: "+largest);

}

}

2)

package com.sonata;

public class NaturalNumbers {

public static void main(String[] args) {

int i;

System.out.println ("The first 10 natural numbers are:\n");

for (i=1;i<=10;i++)

{

System.out.println (i);

}

}

}

3)

package com.sonata;

public class CubeOfNumber {

public static void main(String args[]){

int n = 5;

System.out.println("Cube of the given number is " + (n\*n\*n));

}

}

4)

package com.sonata;

public class SumOfArrayElements {

public static void main(String[] args)

{

int num[] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};

int sum = 0;

for (int i : num)

sum = sum + i;

System.out.println("The sum of the array elements is " + sum);

}

}

6)

package com.sonata;

public class ReverseArray {

public static void main(String[] args) {

int num[] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};

System.out.println("The Original array is: ");

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

{

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

}

System.out.println(" ");

System.out.println("Array in The reverse order is : ");

for (int i = num.length-1; i >= 0; i--)

{

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

}

}

}

8)

package com.sonata;public class DuplicateElements {

public static void main(String[] args) {

int num[] = {5, 6, 9, 6, 4, 7, 4, 8, 9};

System.out.println("Duplicate elements in given array are : ");

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

{

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

{

if(num[i] == num[j])

System.out.println(num[j]);

}

}

}

}

10)

package com.sonata;

public class TwoLargestNumbers {

public static void main (String[] args)

{

int numbers[] = {10, 8, 15, 6, 5, 9};

int largest1, largest2;

largest1 = numbers[0];

largest2 = numbers[1];

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

{

if (numbers[i] > largest1)

{

largest2 = largest1;

largest1 = numbers[i];

}

else if (numbers[i] > largest2 && numbers[i] != largest1)

{

largest2 = numbers[i];

}

}

System.out.println ("The First largest number is " + largest1);

System.out.println ("The Second largest number is " + largest2);

}

}