**DIT 3104 - JAVA - ARRAY ASSIGNMENT**

**Question 1**

(a) Write an array program to the prints out the item prices as given below.

| 4500.00 | 7800.00 | 2500.00 | 8000.00 | 6000.00 | 3000.00 |
| --- | --- | --- | --- | --- | --- |

The program also calculates the total and average price.

**Answer 1**

public class price {

public static void main(String[] args) {

double[] prices = {4500.00,7800.00,2500.00,8000.00,6000.00};

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

System.out.println(prices[i]);

}

}

}

**Answer 2**

public class price {

public static void main(String[] args)

{

double[] prices = {4500.00,7800.00,2500.00,8000.00,6000.00};

int index;

double sum=0;

double avg=0.0;

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

{

System.out.print(prices[i]+"\t");

sum=sum+prices[i];

}

avg=sum/prices.length;

System.out.println("\n total prices="+sum);

System.out.println("");

System.out.println("Average prices="+avg);

System.out.println("");

}

}

(b) Implement a two dimensional array that prints out the output given below.

| A | B | C | D |
| --- | --- | --- | --- |
| E | F | G | H |
| I | I | J | K |
| L | M | N | O |

**Answer 1**

public class arraydimen {

public static void main(String arg[])

{

char alphabet[ ][]={

{'A','B','C','D'},

{'E','F','G','H'},

{'I','J','K','L'},

{'M','N','O','P'}

};

int r,c;

for(r=0;r<4;r++)

{

for(c=0;c<4;c++)

{

System.out.print(alphabet[r][c]+"\t");

}

System.out.println("");

}

}

}

**Question 2**

Salary processing array program

Write a program that requests the user how many employees salary to store in an array first then let the user input salaries using the keyboard. The program then performs the following:

i. Print out the salaries

ii. Determine the lowest salary in the array.

iii. Determine the highest salary in the array.

iv. Calculate the sum and average salary

**Answer 1**

import java.util.Scanner;

public class newarray {

public static void main(String[] args) {

int n;

Scanner sc=new Scanner(System.in);

System.out.print("Enter the number of elements you want to store: ");

n=sc.nextInt();

int[] array = new int[10];

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

for(int i=0; i<n; i++) {

array[i]=sc.nextInt(); }

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

for (int i=0; i<n; i++) {

System.out.println(array[i]); }

}

}

**Answer 2**