**URL to GitHub Repository:**

<https://github.com/ujjali2124/week3assignment/blob/master/week%203-%204%20assigment%20array%20and%20methods.pdf>

**URL to Public Link of your Video:**

[**https://youtu.be/-OLieEB\_VR8**](https://youtu.be/-OLieEB_VR8)

**public** **class** assignment {

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

// **TODO** Auto-generated method stub

// 1. Create an array of int called ages that contains the following values: 3, 9, 23, 64, 2, 8, 28, 93

**int**[] ages = { 3, 9, 23, 64, 2, 8, 28, 93, 95 };

// a. Programmatically subtract the value of the first element in the array from the value in the last element of the array

// (i.e. do not use ages[7] in your code).

// Print the result to the console.

System.***out***.print("Answer 1 : ");

System.***out***.print(ages[ages.length-1] - ages[0]);

// b. Add a new age to your array and repeat the step above to ensure it is dynamic (works for arrays of different lengths).

// c. Use a loop to iterate through the array and calculate the average age. Print the result to the console.

**int** sum = 0;

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

sum=sum+ages[i];

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

System.***out***.println(sum/ ages.length);

// 2. Create an array of String called names that contains the following values: “Sam”, “Tommy”, “Tim”, “Sally”, “Buck”, “Bob”.

String[] names = {"Sam", "Tommy", "Tim", "Sally", "Buck", "Bob"};

// a. Use a loop to iterate through the array and calculate the average number of letters per name.

// Print the result to the console.

**double** average = 0;

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

// System.out.println(names[i].length());

average=average+names[i].length();

}

System.***out***.print("Answer 2 : ");

System.***out***.print(average/ names.length);

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

// b. Use a loop to iterate through the array again and concatenate all the names together, separated by spaces,

// and print the result to the console.

String result = "";

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

result = result + " " + names[i];

}

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

// 3. How do you access the last element of any array?

**int** last = names.length-1;

System.***out***.print("Answer 3 : ");

System.***out***.println(names[last]);

// 4. How do you access the first element of any array?

System.***out***.print("Answer 4 : ");

System.***out***.println(names[0]);

// 5. Create a new array of int called nameLengths.

// Write a loop to iterate over the previously created names array and

// add the length of each name to the nameLengths array.

// int nameLengths = 0;

System.***out***.print("Answer 5 : ");

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

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

// nameLengths+=names[i].length();

}

**int**[] nameLengths = { 3, 5, 3, 5, 4, 3 };

// 6. Write a loop to iterate over the nameLengths array and

// calculate the sum of all the elements in the array.

// Print the result to the console.

**int** result1 = 0;

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

result1 = result1 + nameLengths[i];

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

System.***out***.print("Answer 6 : ");

System.***out***.println(result1);

// 7. Write a method that takes a String, word, and an int, n,

// as arguments and returns the word concatenated to itself n number of times.

// (i.e. if I pass in “Hello” and 3, I expect the method to return “HelloHelloHello”).

System.***out***.print("Answer 7 : ");

*myMethod*("Hello",3);

// 8. Write a method that takes two Strings, firstName and lastName,

// and returns a full name (the full name should be the first and

// the last name as a String separated by a space).

System.***out***.print("Answer 8 : ");

*myMethod1*("Katie","Patel");

// 9. Write a method that takes an array of int and returns true if the sum of all the ints in the array is greater than 100.

**int**[] hello = {1,45,67,45,6};

System.***out***.print("Answer 9 : ");

System.***out***.println(*myMethod2*(hello));

**double**[] hello1 = {1,23,34,34,678};

System.***out***.print("Answer 10 : ");

System.***out***.println(*myMethod3*(hello1));

**double**[] hello2 = {1,23,34,24};

System.***out***.print("Answer 11 : ");

System.***out***.println(*myMethod4*(hello1,hello2));

**boolean** isHotOutside = **true**;

**double** moneyInPocket = 10.51;

System.***out***.print("Answer 12 : ");

System.***out***.println(*willBuyDrink*(isHotOutside,moneyInPocket));

*myMethod5*(5,5,5);

System.***out***.print("Answer 13 : ");

System.***out***.println(*myMethod5*(5,5,5));

}

**public** **static** **void** myMethod(String name, **int** n) {

String result="";

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

result+=name;

}

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

}

**public** **static** **void** myMethod1(String firstName, String lastName) {

String result1= firstName + " " + lastName;

System.***out***.println(result1);

}

**public** **static** **boolean** myMethod2(**int**[] score) {

**int** sum = 0;

**boolean** success = **false**;

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

sum = sum+score[i];

**if** (sum > 100); {

success= **true**;

// System.out.println(success);

}

}

// System.out.println(success);

**return** success;

}

// 10. Write a method that takes an array of double and returns the average of all the elements in the array.

**public** **static** **double** myMethod3(**double**[] scores ) {

**double** sum1 = 0;

**for** (**double** i : scores) {

sum1+=i;

}

**return** sum1 / scores.length;

}

**public** **static** **boolean** myMethod4(**double** arr1[],**double** arr2[]) {

**double** sum3 = 0;

**for** ( **int** i = 0; i < arr1.length; i++) {

sum3 = sum3+arr1[i];

}

// System.out.println(sum3/arr1.length);

**double** sum4 = 0;

**for** ( **int** i = 0; i < arr2.length; i++) {

sum4 = sum4+arr2[i];

}

// System.out.println(sum4/arr1.length);

**return** ((sum3/arr1.length)>(sum4/arr1.length));

}

**public** **static** **boolean** willBuyDrink(**boolean** isHotOutside, **double** moneyInPocket ) {

**return** ( isHotOutside == **true** && moneyInPocket > 10.50 );

}

**public** **static** **int** myMethod5( **int** num1, **int** num2, **int** num3) {

**return** ((num1 + num2 )/ num3);

}

// 11. Write a method that takes two arrays of double and returns true

// if the average of the elements in the first array is greater than the average of the elements in the second array.

// 12. Write a method called willBuyDrink that takes a boolean isHotOutside,

// and a double moneyInPocket, and returns true if it is hot outside and if moneyInPocket is greater than 10.50.

// 13. Create a method of your own that solves a problem. In comments, write what the method does and why you created it.

// i will create a method to calculate first two int and devide by third one

//

}



