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

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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("	");
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//		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 : ");
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		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];
		}
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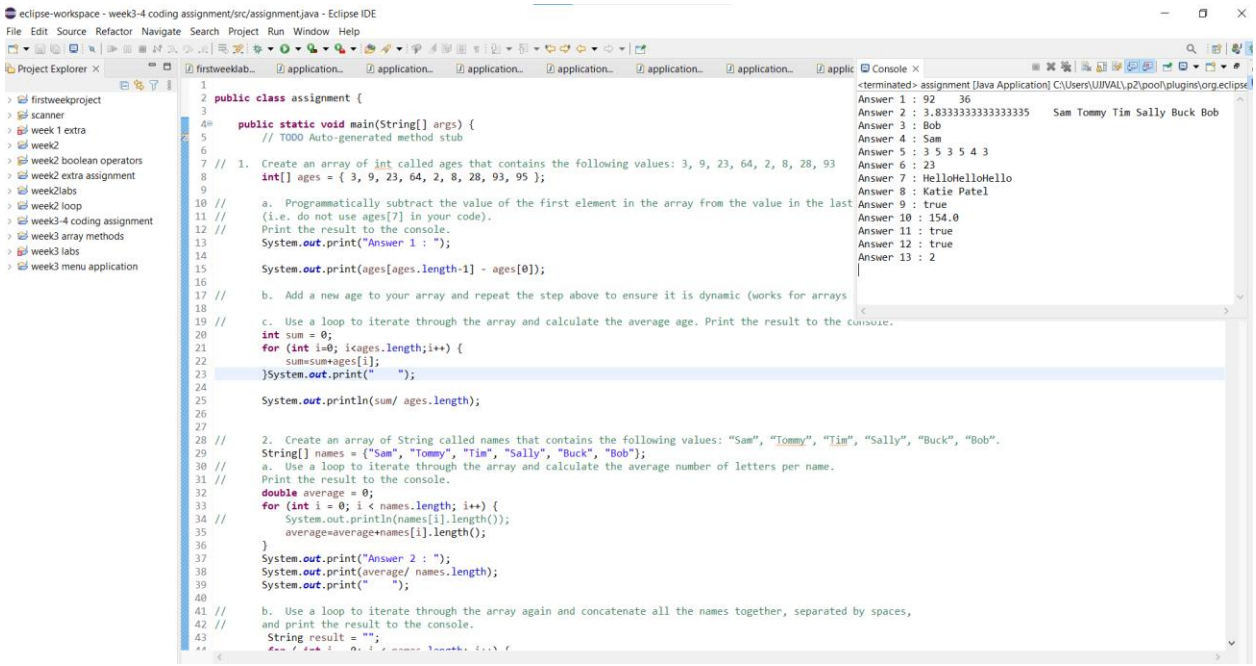
//                  System.out.println(sum3/arr1.length);
                    double sum4 = 0;
                    for ( int i = 0; i < arr2.length; i++) {
                          sum4 = sum4+arr2[i];
                    }
//                  System.out.println(sum4/arr1.length);
                    return ((sum3/arr1.length)>(sum4/arr1.length));
              }
              public static boolean willBuyDrink(boolean isHotOutside, double
moneyInPocket  ) {
                    return ( isHotOutside == true && moneyInPocket > 10.50 );
              }

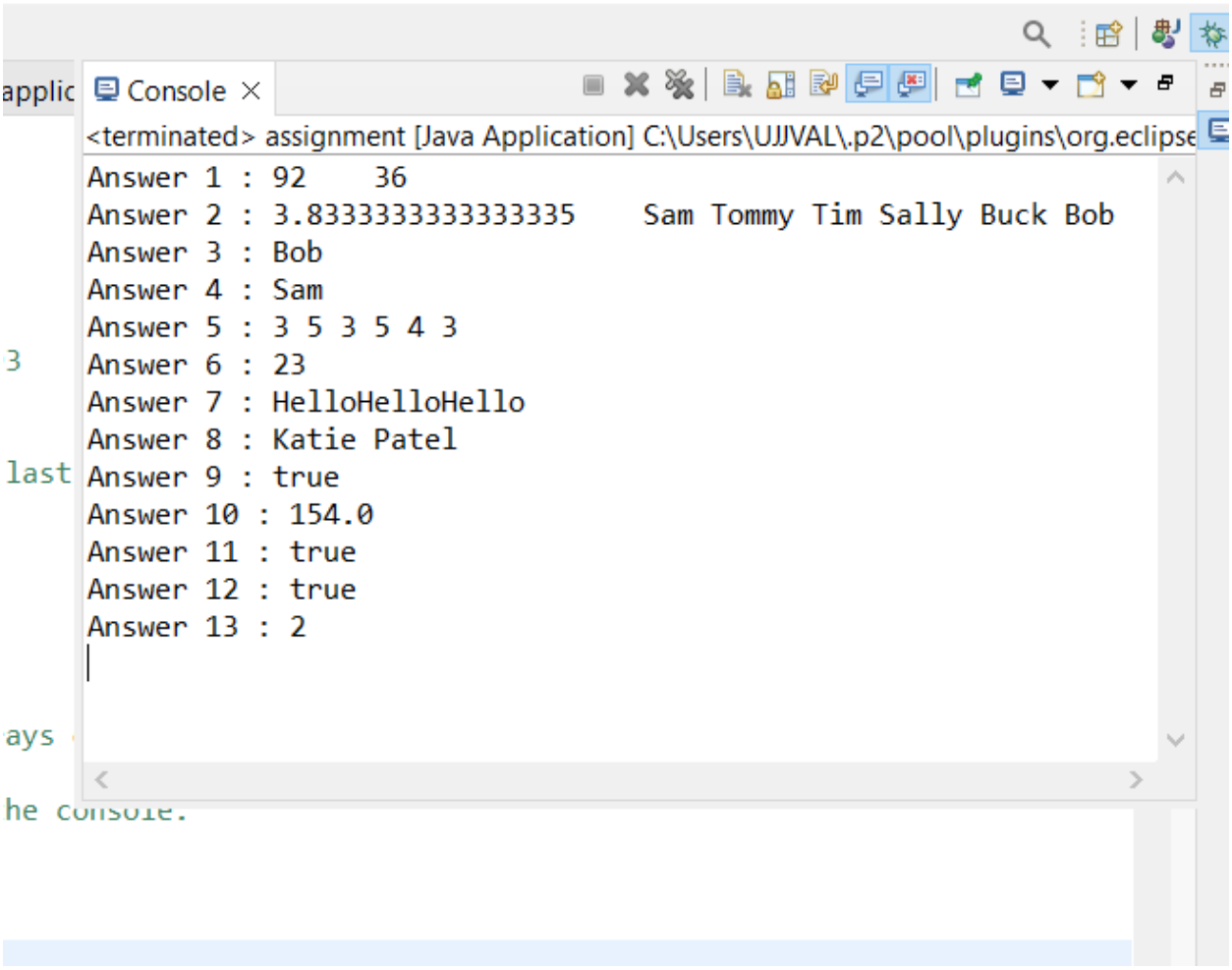
              public static int myMethod5( int num1, int num2, int num3) {
                    return ((num1 + num2 )/ num3);
              }

//            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
//

      }
```




Console
<terminated> assignment [Java Application] C:\Users\UJJVAL\.p2\pool\plugins\org.eclipse
Answer 1 : 92 36
Answer 2 : 3.8333333333333335 Sam Tommy Tim Sally Buck Bob
Answer 3 : Bob
Answer 4 : Sam
Answer 5 : 3 5 3 5 4 3
Answer 6 : 23
Answer 7 : HelloHelloHello
Answer 8 : Katie Patel
Answer 9 : true
Answer 10 : 154.0
Answer 11 : true
Answer 12 : true
Answer 13 : 2