**Homework3-array**

1. We have two arrays represent name and their salary as below:

String[] employee = {“Doung”,”Chan”,”Minea”,”Mesa”,”Romdoul”,”Veha”,”Por”,”Kanika”}

int[] salary = { 560, 560, 500, 500, 190, 190, 560,700}

This mean Doung has salary 500, Chan has salary 560 and so on. These two arrays must have the same length or size.

Write Java program to:

a) Find who has the highest salary

b) Find who has the lowest salary

c) Find who has the salary lower than average salary

d) Find who has the salary higher or equal average salary

e) Find who has the same salary

Answer:

**public** **class** Answer1 {

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

String[] employee = { "Doung", "Chan", "Minea", "Mesa", "Romdoul", "Veha", "Por", "Kanika" };

**int**[] salary = { 560, 560, 500, 500, 190, 190, 560, 700 };

**int** highest = salary[0];

**int** lowest = salary[0];

**double** average = 1;

**int** sum = 0;

**int** same = salary[0];

String line = "---------------------------------";

/// Answer1

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

**if** (highest < salary[i]) {

highest = salary[i];

}

}

**for** (**int** j = 0; j < employee.length; j++) {

**if** (highest == salary[j]) {

System.***out***.println("1.Employee who has highest salary: ");

System.***out***.println(employee[j] + " " + "has the highest salary of " + "$" + highest);

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

}

}

/// Answer2

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

**if** (lowest > salary[i]) {

lowest = salary[i];

}

}

System.***out***.println("2.Employee who has highest salary: ");

**for** (**int** j = 0; j < employee.length; j++) {

**if** (lowest == salary[j]) {

System.***out***.println(employee[j] + " " + "has the lowest salary of " + "$" + lowest);

}

}

/// Answer3

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

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

sum += salary[i];

average = sum / salary.length;

}

System.***out***.println("3.Employee who has lower salary than average: " + average);

**for** (**int** j = 0; j < employee.length; j++) {

**if** (salary[j] < average) {

System.***out***.println(employee[j] + ": " + "$" + salary[j]);

}

}

/// Answer4

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

System.***out***.println("4.Employee who has higher salary than average: " + average);

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

**if** (highest < salary[i]) {

highest = salary[i];

}

}

**for** (**int** j = 0; j < employee.length; j++) {

**if** (salary[j] > average) {

System.***out***.println(employee[j] + ": " + "$" + salary[j]);

}

}

//Answer5

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

System.***out***.println("5. Employee who has same salary:");

**for** (**int** j = 0;j<employee.length;j++) {

**if**(same >= salary[j]) {

System.***out***.println(employee[j]+": "+"$"+salary[j]);

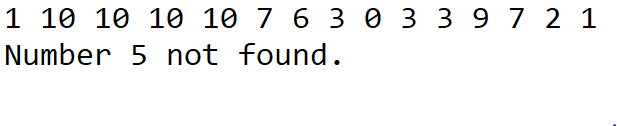
}

}

}

}

1. Create an array of number which could store 15 random number between 0 and 10. Write java program to count how many number 5 appears in this array with the number of index found. If number 5 is not found give message as below.



Answer:

**int** number[] = **new** **int**[15];

String index = "";

**int** count = 0;

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

**int** random = (**int**) (Math.*random*() \* 11 + 0);

number[i] = random;

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

**if** (number[i] == 5) {

count++;

index = index + i + " ";

}

}

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

**if** (count != 0) {

System.***out***.println("There are " + count + " " + "of number 5 found in index as bellow. ");

System.***out***.println("Index:" + index);

} **else** {

System.***out***.println("Number 5 not found.");

}