الجامعة العربية المفتوحة

Arab Open University

Meeting 4 – Part 1

ملاحظة: جميع الأمثلة والواجبات اللي بالملف من اسئلة امتحانات العملي السابقة الخاصة بجزئية الفور لوب

Eng. Ramadan Ibrahim   **WhatsApp: 00201024805965**

for loop

Example:

Write program to read 10 scores from user and then prints the minimum score.

```java
import java.util.Scanner;
public class Meeting4_Test1 {
    public static void main(String[] args) {
        int score = 0, min = 1000;
        Scanner s = new Scanner(System.in);
        for (int i = 0; i < 10; i++) {
            System.out.print("Enter score: ");
            score = s.nextInt();
            if(score < min){
                min = score;
            }
        }
        System.out.println("Min = " + min);
    }
}
```

Example:

Write java program that reads from user an integer n representing the number of values he wants to enter. Read from user n temperatures. Count and print the number of negative temperatures.

```java
import java.util.Scanner;
public class Meeting4_Test2 {
    public static void main(String[] args) {
        int n = 0, temp = 0, count = 0;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter n: ");
        n = s.nextInt();// اليوزر يقوم بتحديد عدد القيم
        for (int i = 0; i < n; i++) {
            System.out.print("Enter a temperature: ");
            temp = s.nextInt();
            if(temp < 0){
                count++;
            }
        }
        System.out.println("The number of negative temperatures: " + count);
    }
}
```

Example:

Write a java program that:
- **Reads from user an integer n representing the number of values he wants to enter.**
- **Reads from user n integer values.**
- **Counts and prints the number of values divisible by 3.**

Hint: The input and output of your program should be like the following:

Enter the number of values: 5
Enter the values: 10 6 5 11 9
The number of values divisible by 3 = 2

```java
import java.util.Scanner;
public class Meeting4_Test3 {
    public static void main(String[] args) {
        int n = 0, value = 0, count = 0;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter the number of values: ");
        n = s.nextInt(); // اليوزر يقوم بتحديد عدد القيم
        System.out.print("Enter the values: ");
        for (int i = 0; i < n; i++) {
            value = s.nextInt();
            if(value % 3 == 0){
                count++;
            }
        }
        System.out.println("The number of values divisible by 3 = " + count);
    }
}
```

Write a java program that:
- **Reads from user an integer n representing the number of values he wants to enter.**
- **Reads from user n integer values.**
- **Counts and prints the number of values divisible by both 2 and 3.**

Hint: The input and output of your program should be like the following:

Enter the number of values: 5
Enter the values: 10 6 5 11 9
The number of values divisible by both 2 and 3 = 1

Write a java program that:
- **Reads from user an integer n representing the number of temperatures (as real numbers) he wants to enter.**
- **Reads from user the n temperature (as real numbers).**
- **Finds and prints the maximum temperature.**

Hint: The input and output of your program should be like the following:

Enter the number of temperatures: 5
Enter the temperatures: 10.5 -6.2 5 7 -9.4
The maximum temperature is: 10.5

Example:

Write a java program that:
- **Reads from user 2 integers x and y.**
- **Calculates and prints the sum of even values between x and y (inclusive).**

Hint: The input and output of your program should be like the following:

Enter the start value: 2
Enter the end value: 8
Sum of the even values between them is: 20

```java
import java.util.Scanner;
public class Meeting4_Test5 {
    public static void main(String[] args) {
        int x = 0, y = 0, sum = 0;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter the start value: ");
        x = s.nextInt(); // اليوزر يقوم بتحديد بداية اللوب
        System.out.print("Enter the end value: ");
        y = s.nextInt(); // اليوزر يقوم بتحديد نهاية اللوب
        for (int i = x; i <= y; i++) {
            if(i % 2 == 0){
                sum = sum + i;
            }
        }
        System.out.println("The total of evens = " + sum);
    }
}
```

Test yourself

Write a java program that:
- **Reads from user 2 integers x and y.**
- **Calculates the total of the odd numbers between the two variables x and y (inclusive).**

Hint: The input and output of your program should be like the following:

Enter the start value: 2
Enter the end value: 5
The total of the odd number is: 8

Eng. Ramadan Ibrahim　　　　　　　**WhatsApp: 00201024805965**