Alprog minggu ketujuh – Eugenia Indrawan

Lanjutan perulangan

- Syntax for
  - For(variable yang mempengaruhi syarat ;syarat perulangan akan dilakukan; bagian yang akan dieksekusi sebelum keluar dari loop for){ WHAT TO EXECUTE HERE }

CODE OF THE DAY

```
public class mingguKetujuh {
    public static void main(String[] args) {
        int iteration = 0;
        int maxIteration = 3;

        for (System.out.println("A"); iteration < maxIteration;
       System.out.println("end of iteration")) {
            System.out.println("Inside the for loop");
            iteration++;
        }

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

            for (int j = 0; j < 5; j++) {
                System.out.print("i" + i + "j= " + j);

            }
        }

        for (int i = 0; i < 3; i++) {
            for (int j = 0; j < 5; j++) {
                System.out.print("*");
            }
            System.out.print("\n");
        }

       // segitiga terbalik

        for (int i = 5; i > 0; i--) {
            for (int j = 1; j <= i; j++) {
                System.out.print("*");
            }
            System.out.print("\n");
       }
```

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```java
int[] nrp = { 109, 86, 20, 17, 85, 211 };

  int total = 0;
  for (int i = 0; i < nrp.length; i++) {
      total = total + nrp[i];

  }
  System.out.println(total);
  System.out.println(total / nrp.length);

 // angka terbesar

  int simpan = 0;
  for (int i = 0; i < nrp.length; i++) {
      if (nrp[i] > simpan) {
          simpan = nrp[i];
      }
  }
  System.out.println(simpan);

// angka terkecil

  for (int i = 0; i < nrp.length; i++) {
      if (nrp[i] < simpan) {
          simpan = nrp[i];
      }
  }
  System.out.println(simpan);

// jumlah NRP yang di atas rata - rata

  int jumlah = 0;
  int aboveAverage = 0;
  int sumAboveAverage = 0;
  for (int i = 0; i < nrp.length; i++) {
      jumlah = nrp[i] + jumlah;
  }
  int rata = jumlah / nrp.length;
  System.out.println(rata);

  for (int j = 0; j < nrp.length; j++) {
      if (nrp[j] > rata) {
          aboveAverage++;
          sumAboveAverage = nrp[j] + sumAboveAverage;
      }
  }
```

```
        System.out.println("Ada " + aboveAverage + " mahasiswa yang NRPnya lebih
dari rata - rata");
        System.out.println("Jumlah dari NRP mereka adalah " + sumAboveAverage);

      // Palindrome format ibuknya

        String text = "Never odd or even";
        if (isPalindrome(text)) {
            System.out.println(text + " is a palindrome.");
        } else {
            System.out.println(text + " is not a palindrome.");
        }

    }
    public static boolean isPalindrome(String text) {
        String rev = "";
        String newtext = text.toLowerCase().replaceAll(" ", "");
        for (int i = newtext.length(); i >= 1; i--) {
            rev = rev + newtext.charAt(i - 1);
        }
        return newtext.equals(rev);
    }

}
```