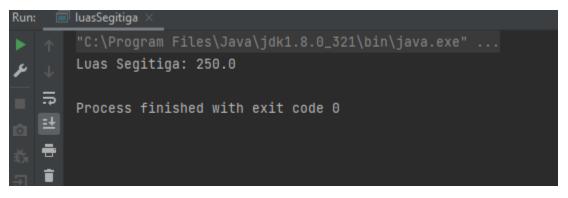
PART A

1. Menghitung Luas Segitiga

Source code

```
public class luasSegitiga {
    public static void main(String[] args) {
        // input
        float alas = 20;
        float tinggi = 25;

        // luas segitiga
        float luas;
        luas = 0.5f * alas * tinggi;
        System.out.println("Luas Segitiga: " + luas);
    }
}
```



2. Konversi Nilai

```
public class konversiNilai {
   public static void main(String[] args) {
        // input
        int studentScore = 80;

        // proses konversi

        if(studentScore <= 100 && studentScore >= 80) {
            System.out.println("Nilai Mahasiswa: A");
        } else if ( studentScore <= 79 && studentScore >= 65) {
            System.out.println("Nilai Mahasiswa: B+");
        }
}
```



3. Faktor Bilangan

```
}
```



4. Faktor Bilangan II

Source code



5. Bilangan Prima

```
public class bilanganPrima {
    static boolean primeNumber(int number) {
        boolean hasil;
        hasil = true;
        int x = 0;
        for (int i = 1; i <= number; i++) {</pre>
```



6. Palingdrome

```
public class palingdrom {
    private static boolean palingdrome(String value) {
        boolean cek = true;
        String teksKebalikan = "";
        int jmlh = value.length();
```

```
for (int i = jmlh - 1; i >= 0; i--){
    teksKebalikan += value.charAt(i);
}
if (value.equalsIgnoreCase(teksKebalikan)){
    cek = true;
}else {
    cek = false;
}
return cek;
}

public static void main(String[] args) {
    System.out.println(palingdrome("civic"));
    System.out.println(palingdrome("katak"));
    System.out.println(palingdrome("kasur rusak"));
    System.out.println(palingdrome("kupu-kupu"));
    System.out.println(palingdrome("lion"));
}
```

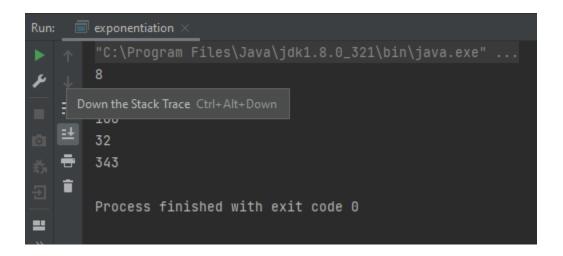


PART B

1. Exponentiation

```
public class exponentiation {
    private static int pangkat(int a, int b) {
        int hasil = 1;
        for(int i = 1; i <= b; i++) {
            hasil = hasil * a;
        }
        return hasil;
    }

    public static void main(String[] args) {
        System.out.println(pangkat(2, 3)); //8
        System.out.println(pangkat(5, 3)); //125
        System.out.println(pangkat(10, 2)); //100
        System.out.println(pangkat(2, 5)); //32
        System.out.println(pangkat(7, 3)); //343
    }
}</pre>
```



2. Play With Arterisk

```
public class playWithAsterisk {

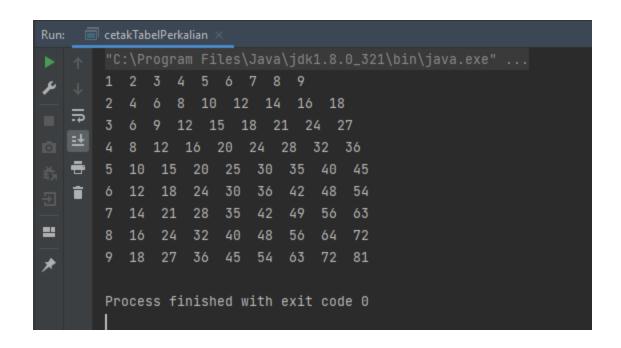
   private static void bintang(int n) {
      int space = n-1;
      for (int x = 1; x <= n; x++) {
            for (int y = space; y >=1; y--) {
                System.out.print(" ");
            }
            for (int z = 1; z <= x; z++) {
                 System.out.print("* ");
            }
            System.out.println(" ");
            space--;
            }
        }
        public static void main(String[] args) {
            bintang(5);
        }
}</pre>
```



3. Draw XYZ

4. Cetak Tabel Perkalian

```
public class cetakTabelPerkalian {
   private static void tabelPerkalian(int n) {
      for (int x = 1; x <= n; x++) {
           System.out.print(x);
           for (int y = 2; y <= n; y++) {
                 System.out.print(" " + y * x );
            }
            System.out.println("");
      }
    }
   public static void main(String[] args) {
      tabelPerkalian(9);
   }
}</pre>
```



5. Ubah Huruf



6. Mean

```
public class mean {
    private static float Mean(float[] numbers) {
        float tambah = 0;
        for (int i = 0; i < numbers.length; i++) {
            tambah = tambah + numbers[i];
        }
        return tambah / numbers.length;
    }

public static void main(String[] args) {
    float[] value = {1,2,3,4};
        System.out.println(Mean(value)); // 2.5
    }
}</pre>
```

