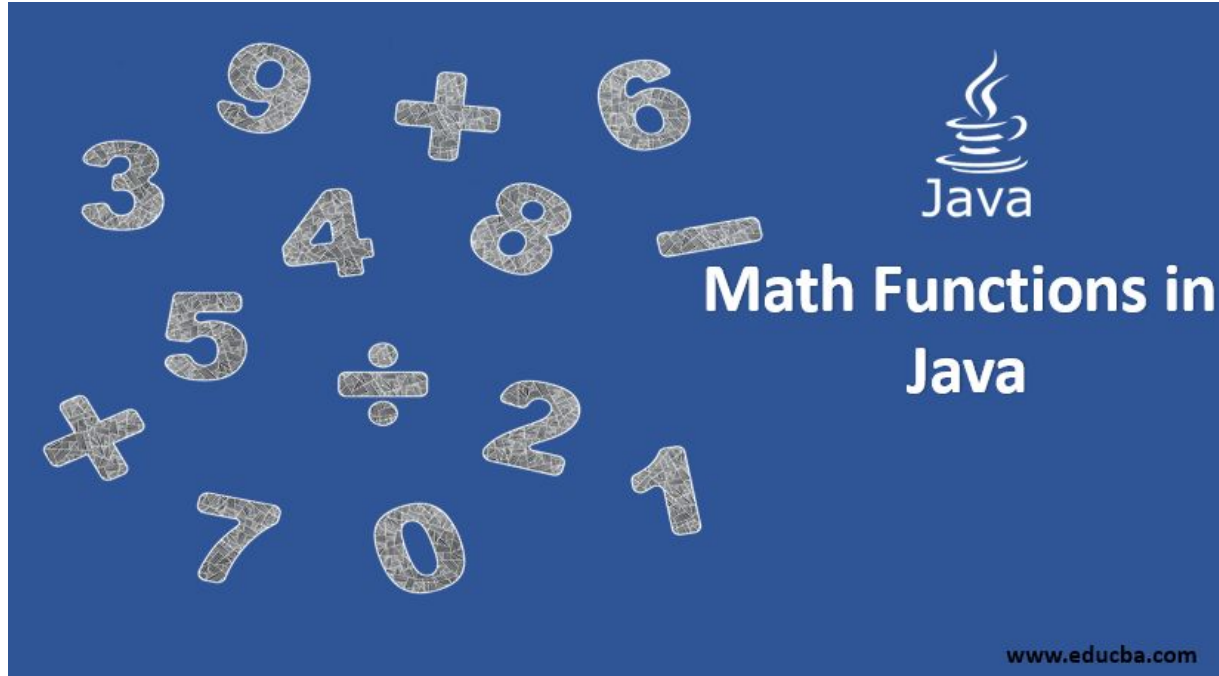


"Biežāk lietotās funkcijas darbam ar skaitliskajiem mainīgajiem programmēšanas valodā Java"



Niks Lomonosovs 2PT

Matematiskās funkcijas



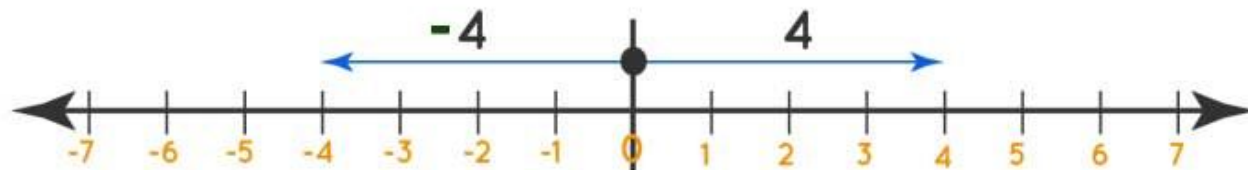
Math.abs

Funkcija kas atgriež absolūto vērtību

Absolute Value on a Number Line

-4 is 4 away from 0

4 is 4 away from 0

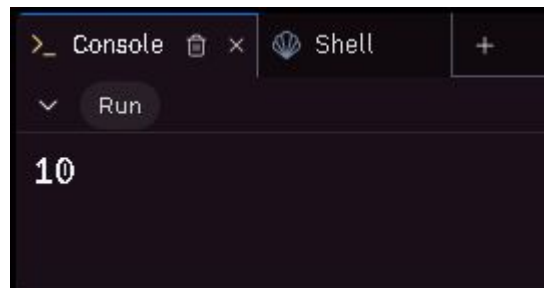


\therefore Absolute value of 4 = 4

Absolute value of - 4 = 4

Koda piemērs ar Math.abs funkciju

```
1
2  public class Main {
3      public static void main(String[] args) {
4          int x = Math.abs(-10);
5          System.out.println(x);
6      }
7  }
```



Math.max & Math.min

Funkcija kas norāda maksimālo un minimālo vērtību

Java max()



The illustration shows a person sitting on a laptop. Two callout boxes are present. The first box, titled 'max()', contains the values 1024 and 2034, and states 'The Maximum number is 2034.' The second box, also titled 'max()', contains the values -10 and -20, and states 'The Maximum number is -10.' A Java logo is in the bottom left corner.

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Java min()

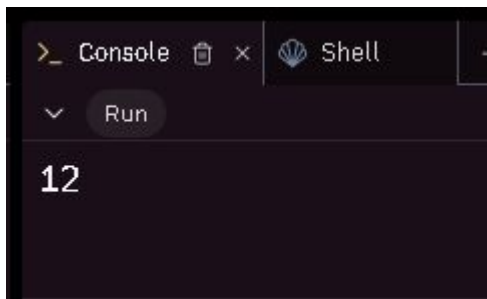


The illustration shows a person sitting on a laptop. Two callout boxes are present. The first box, titled 'min()', contains the values X = -41 and Y = 67, and states 'The Maximum number is 41.' The second box, titled 'Min()', contains the values X = -41 and Y = -67, and states 'The Maximum number is -67.' A Java logo is in the bottom left corner.

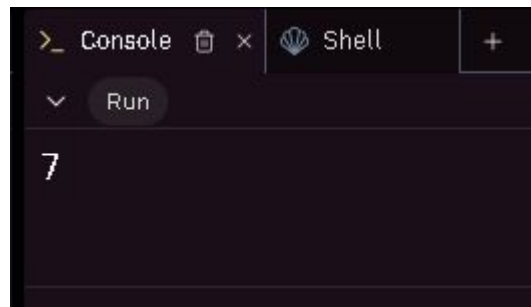
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Koda piemērs ar Math.max un Math.min

```
1
2 ✓ public class Main {
3 ✓   public static void main(String[] args) {
4     int x = 12;
5     int y = 7;
6     ⚡ System.out.println(Math.max(x, y));
7   }
8 }
```



```
1
2 ✓ public class Main {
3 ✓   public static void main(String[] args) {
4     int x = 12;
5     int y = 7;
6     ⚡ System.out.println(Math.min(x, y));
7   }
8 }
```



Math.sqrt

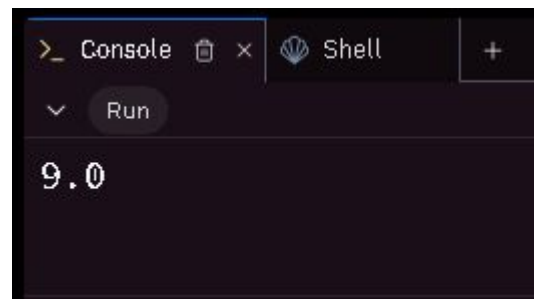
Funkcija kas nosaka skaitļa kvadrātsakni

Square and Square Root
in Java

$$4 = \sqrt{16}$$

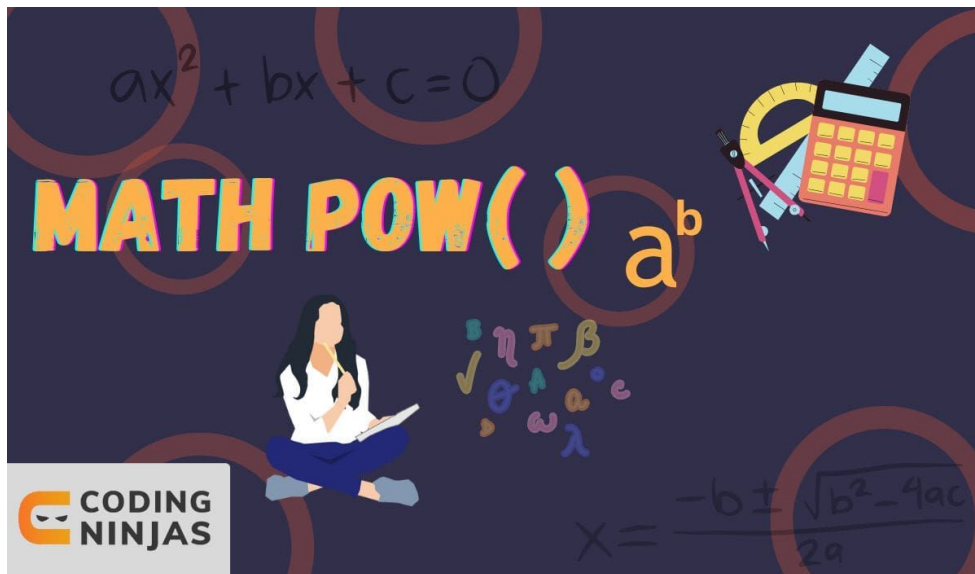
Koda piemērs ar Math.sqrt

```
1
2  public class Main {
3  public static void main(String[] args) {
4      int x = 81;
5      System.out.println(Math.sqrt(x));
6  }
7  }
```



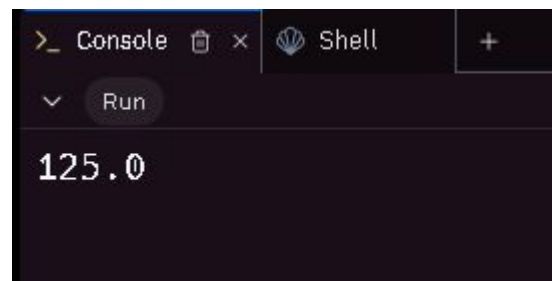
Math.pow

Funkcija kas aprēķina skaitli pakāpē



Koda piemērs

```
1
2 ✓ public class Main {
3 ✓   public static void main(String[] args) {
4     double x = 5;
5     double y = Math.pow(x,3);
6     System.out.println(y);
7   }
8 }
```



Math.round



Koda piemērs

```
✓ public class Main {  
✓   public static void main(String[] args) {  
    double x = 5.5;  
    double y = Math.round(x);  
    System.out.println(y);  
  }  
}
```

> Console [x] [Shell] +

Run

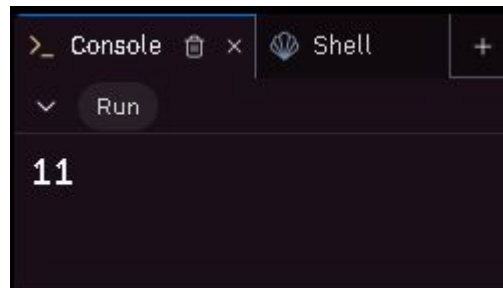
6.0

Random skaitļa funkcijas



Koda piemērs ar Random paņemienu

```
1 import java.util.Random;
2 public class Main {
3     public static void main(String[] args) {
4         Random rand = new Random();
5         int x = rand.nextInt(15);
6         System.out.println(x);
7     }
8 }
```

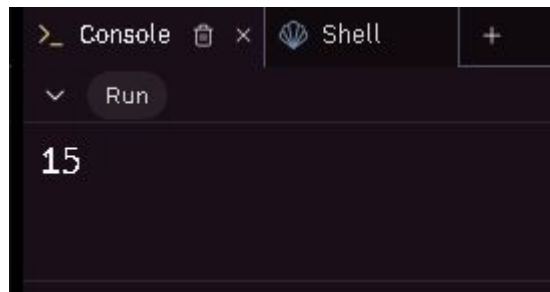


String vērtības pārveršana uz int



Koda piemērs

```
1
2 v public class Main {
3 v   public static void main(String[] args) {
4       String x = "15";
5       int y = Integer.parseInt(x);
6       System.out.println(y);
7   }
8 }
```

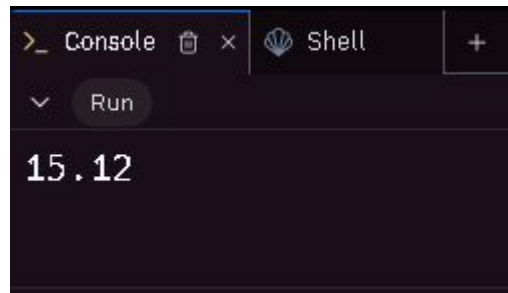


String vērtības pārveršana uz Double



Koda piemērs

```
1
2  public class Main {
3  public static void main(String[] args) {
4      String x = "15.12";
5      double y = Double.parseDouble(x);
6      System.out.println(y);
7  }
8  }
```



Paldies par uzmanību!

Izmantotie avoti

[Complete Maths in DSA using Java \(linkedin.com\)](#)

[EDUCBA | Best Online Training & Video Courses Certification](#)

[Coding Ninjas - Learn coding online at India's best coding institute](#)

[How to Calculate Square and Square Root in Java? | Edureka \(medium.com\)](#)

I.Znotiņas prezentācijas:)