

Lecture 41

Java – For Loop [Example 03]

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| Body Mass Index (BMI)

- To determine whether a person is overweight or obese, you can use a measure called the body mass index (BMI)
- Create a **BMI calculator** that reads the user's **weight in kilograms** and **height in meters**, then **calculates and displays** the user's body mass index

- $$BMI = \frac{Weight\ (Kgs)}{Height^2\ (m)}$$

- Underweight: less than 18.5
- Normal: between 18.5 and 24.9
- Overweight: between 25 and 29.9
- Obese: 30 or greater

| Body Mass Index (BMI)

```
import java.util.Scanner;
public class sekoseko {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Weight (kg): ");
        double w = sc.nextDouble();
        System.out.print("Height (m): ");
        double l = sc.nextDouble();
        double bmi = w/(l*l);
        System.out.printf("BMI = %f",bmi);

    }

}
```

| References

- Java: How to Program, 9th Edition (Deitel) 9th Edition by Paul Deitel , Harvey M. Deitel
- Head First Java, 2nd Edition 2nd Edition by Kathy Sierra, Bert Bates
- Think Java: How to Think Like a Computer Scientist 1st Edition by Allen B. Downey, Chris Mayfield