**Assignment 1 - Practise your variables knowledge.**

Solve the instructions below

**Questions for this assignment**

1. Why should variable names in Java be self-descriptive? Provide an example of a poorly named variable and a well-named variable.
2. Write a Java statement to declare a constant variable named PI with the value 3.14.
3. Write a Java statement to cast the integer variable a to a double and divide it by b.

**Solution:**

1. **Why should variable names in Java be self-descriptive? Provide an example of a poorly named variable and a well-named variable.**

Self-descriptive variable names make the code easier to read and understand, reducing the chance of errors and improving maintainability. Example of a poorly named variable: a (ambiguous and unclear). Example of a well-named variable: userName (clearly indicates it stores a user's name).

1. **Write a Java statement to declare a constant variable named PI with the value 3.14.**

final double PI = 3.14;

1. **Write a Java statement to cast the integer variable a to a double and divide it by b.**

int a = 5;

int b = 2;

double result = (double) a / b;