

## Lab 03 – Expressions and Interactivity

The volume of a cylinder or pillar can be calculated by multiplying the constant  $\pi$  by the radius squared times the height of the pillar. Write a program that would enable a contractor to calculate how many cubic meters of concrete they would need to purchase to make a building or bridge and how much the total cost of that concrete will be. Concrete will be at a fixed price of \$200 per cubic meter.

The program should ask for the contractor's full name and greet them. The program should then ask the contractor how tall the pillars are, how wide the pillars are, and how many pillars they need. From this information, the program should calculate how much concrete is needed and how much money the contractor will need to complete the purchase. This information should be nicely printed to the screen using an English sentence. The amount of money should be formatted with a dollar sign in the front and should display with exactly two places after the decimal point even if the total cost is an even dollar amount (zero cents).

You should hand in to Blackboard your source code file and an example of your output.