

## Variables & Data Types

### (Assignment Questions)

**Question 1 :** In a program, input the side of a square. You have to output the area of the square.

*Input :  $n$  (side)*

*Output :  $n*n$  (area)*

**Question 2 :** Enter cost of 3 items from the user (using float data type) - a pencil, a pen and an eraser. You have to output the total cost of the items back to the user as their bill.

(Add on : You can also try adding 18% GST tax to the items in the bill as an advanced problem)

**Question 3 :** Build a Simple Interest Calculator.

*Input : principal ( $P$ ), rate ( $R$ ), time ( $T$ )*

*Output :  $(P*R*T) / 100$*

**Question 4 :** Write a program to calculate the area of a circle.

*Input :  $r$  (radius)*

*Output :  $\pi*r*r$  (area)*

*Note - These questions are only to help you practice the concepts of this chapter. These are not designed to test your mathematical skills, just to understand logic building using C++.*