

BSc (Hons) in Information Technology Year 1

Tutorial 6

IT1010 – Introduction to Programming

Semester 1, 2023

Exercise 1 : Practice to use math library functions

Show the value of x after each of the following statements is performed:

- i. x = floor(7.5)
- ii. x = ceil (0.0)
- iii. x = ceil (-6.4)
- iv. x = log10(100.0)
- v. x = ceil (floor (-5.5))

Exercise 2: Practice to write a simple function

Write a function called circleArea() that take the radius of a circle as an argument and calculate and return the area. In the main program read the radius value from the user, call circleArea() and display the result.

Exercise 3: Practice to write functions and use those functions to solve a problem

Write three functions do the following

add - add two integers pass as parameters and return the result
multiply - multiply two integers pass as parameters and return the result
square - receive an integer as a parameter and return the result after multiplying the number by itself.

Use these functions in the main program to calculate the result of the following mathematical expression.

 $(3*4 + 5*7)^2$