## BSc (Hons) in Information Technology Tutorial – Week 6

Variable Name:

### **IT1050 – Object Oriented Concepts**

**Year 1 - Semester 2, 2021** 

Memory Address:

#### Exercise 1 - Memory Address

Define floating-point variables number1 and number2 and initialize number1 to 6.2 and number2 to 7.3.

 $float\ number1 = 6.2;$ 

float number2 = 7.3;

Variable Name:

- 1. Define the variable fPtr to be a pointer to a variable of type float.
- 2. Assign the address of variable number1 to pointer variable fPtr.
- 3. Print the value of the object pointed to by fPtr.

Memory Address:

- 4. Assign the value of the variable pointed to by fPtr to variable number 2.
- 5. Print the value of number 2.
- 6. Print the address of number1.
- 7. Print the address stored in fPtr. Is the value printed the same as the address of number1?

Number1		Number2
Value of Variable:		Value of Variable:
Variable Name: fPtr	Memory Address:	
Value of Variable:		



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#### **Exercise 2 – Pointer Manipulation**

- 1. Declare two float type variables num1 and num2.
- 2. Get an input from the user and assign the input to the variable num2.
- 3. Declare two pointer variables.
- 4. Assign the address of variable num1 and num2 to pointer variables.
- 5. Add 7.8 to the num1 (num1 should be accessed using pointers).
- 6. Subtract 14.2 from num2 (num1 should be accessed using pointers).
- 7. Print the values of num1 and num2 using pointers.
- 8. Add num1 and num2 and display the answer.