

**OOP Assignment # 4**  
**Issue Date: 26th March 2019**  
**Due Date: 2<sup>nd</sup> May 2019**  
**Marks: 10 points**

**Please carefully read the following instructions.**

**INSTRUCTIONS**

- DO your ASSIGNMENT on A-4 size paper.
- You're allowed to make necessary assumptions where required. Provide those assumptions as comments.
- It should be clear that your assignment would not get any credit if the assignment is submitted after the due date. No assignment will be accepted after the due date.
- Strict action will be taken if submitted solution is copied from any other student.
- You are supposed to submit your assignment in handwritten format only.
- If you find any mistake or confusion in assignment (Question statement), please
- consult before the deadline. After the deadline no queries will be entertained in this regard.
- For any query, feel free to email at: [mahrukh.khan@nu.edu.pk](mailto:mahrukh.khan@nu.edu.pk)

**QUESTION**

Object-oriented programming is a programming paradigm based on the concept of "objects", which can contain data, in the form of fields, and code, in the form of procedures. Some of the OOP languages are,

- Simula, the first object-oriented programming language.
- Java.
- Python.
- Ruby.
- C++
- Smalltalk.
- Visual Basic .NET.
- Objective-C

Provide a detailed 2-3 page handwritten comparative analysis Report of any one of the mentioned with C++ in terms of Object Oriented Pillars, Syntax, Environment, discuss drawbacks and advantages if any. Conclude with examples.