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NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, University Village Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi-Abuja.

FACULTY OF SCIENCES

DEPARTMENT OF COMPUTER SCIENCE

2022 2 EXAMINATION

Course Code: CIT834

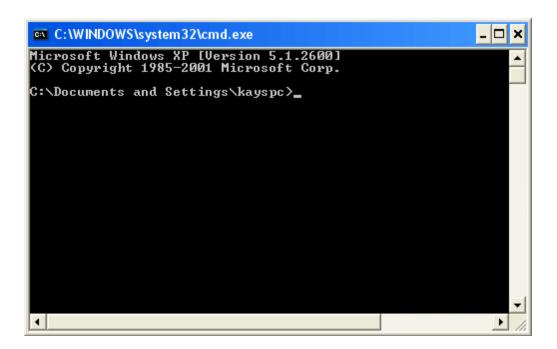
Course Title: OBJECT-ORIENTED PROGRAMMING USING C#

Credit Unit: 3 units

Instruction: Answer Question one and other three (3) questions **Time:** 3hrs

- 1. a. State three basic steps involved in object-oriented programming. [5 marks]
 - b. State any five characteristics of object-oriented programming. [5 marks]
 - c. Write a simple program that displays "Hello World" [5 marks]
 - d. Create a class that represents a triangle with the definition of its properties: height, baselength and area [10 marks]
- 2. a. Explain the terms "Default Constructor" and "Destructor" [5 marks]
 - b. Using an example, state the code for the execution of a constructor [10 marks]
- a. Give a concise explanation of the concept of 'Polymorphism' as it relates to inheritance and upcasting. [5 marks]
 - b. State the roles of inheritance in object-oriented programming. [10 marks]
- 4. Study the figure below carefully and answer the questions that follow:

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- 4a. Give any 2 reasons why this this application is considered suitable for learning object-oriented programming using C# and utility programs? [5 marks]
- b. State the procedure involved in creating a new Console Application project. [10 marks]
- 5 a. State five advantages of and five areas of application of object-oriented programming. [10 marks]
 - b. State the criterion for using the static property. [5 marks]
- 6. a. Define the term Inheritance [2 marks]
 - b. Explain the types of inheritance in modern programming languages [4 marks]
 - c. State with an example the procedure to demonstrate Inheritance [9 marks]