OBJECT ORIENTED PROGRAMMING USING JAVA

THEORY ASSIGNMENT - 1 [ANY TEN]

Submission Date: On or Before 8th April 2023

- 1. Explain below concepts of OOP [with real life example]:
 - a. Class
 - b. Object
 - c. Abstraction
 - d. Encapsulation
 - e. Inheritance
 - f. Polymorphism
- 2. Explain features of Java.
- 3. What is JVM?
- 4. What is Bytecode?
- 5. What is constructor? Explain constructor overloading with example.
- 6. Explain use of "this" and "super" with appropriate example.
- 7. Explain static method, block & variable with appropriate example.
- 8. Explain final class, method & variable with appropriate example.
- 9. Explain abstract class & method with appropriate example.
- 10. What is method overloading? Explain with example.
- 11. What is inheritance? Explain various types of inheritance with example.
- 12. What is interface? What is the need of it? Explain with appropriate example.
- 13. What is pass by value and pass by reference?
- 14. Explain any 10 methods of String class with example.
- 15. What is wrapper class? Explain autoboxing and unboxing?
- 16. What is package? How to create and use package? Explain with appropriate example.
- 17. What are access modifiers? Explain them with respect to package with example.
- 18. Differentiate:
 - a. Abstract class and interface
 - b. Class and object
 - c. Static and non-static
 - d. Procedural programming vs Object oriented programming
 - e. Method overloading vs Method Overriding
 - f. Abstract vs final