



# **Lab Manual OOP with JAVA**

## **KCA-251**

### **Session: 2022-23**

## **INDEX**

#### **UNIT 1: Java Basic Programs:**

1. Write a Java program to insert 3 numbers from keyboard and find out greater number among 3 numbers.
2. Write a Java program to find out the sum of command line arguments.
3. Write a Java program to create a Room class, the attributes of this class is roomno, roomtype, roomarea and ACmachine. In this class the member functions are setData and displayData. Use member function to set data and display that data using displayData() method.
4. Write a Java program to create a class "SimpleObject" and display message by using constructor of this class.
5. Write a program to demonstrate static variables, methods, and blocks.

#### **UNIT 2: Java Object Oriented Programs:**

1. Write a Java program to create a class named Shape and create three sub classes Circle, Triangle and Square, each class has two-member function named draw () and erase (). Implement this concepts using polymorphism.
2. Write a Java program to give a simple example for abstract class.
3. Write a Java program to give example for multiple inheritance in Java.
4. Write a Java program to create class Number with only one private instance variable as a double primitive type, include the following methods isZero(), isPositive(), isNegative( ), isOdd( ), isEven( ), isPrime(), isArmstrong() in this class and all above methods should return boolean primitive type like for isPositive() should return "Positive = True".

#### **UNIT 3: Java Exception Handling:**

1. Write a Java program to illustrate usage of try\catch with finally clause.
2. Write a Java program to describe usage of throws clause.
3. Write a Java program for creation of user defined exception.
4. Create a class Customer having following members:

```
private String custNo  
private String  
custName
```

# Oops Lab Manual 3

**Lingsheng Yao**



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