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Java Practical (PBC-301)

Ques-1-

```
import java.util.Scanner;
public class ConditionalCalculator{
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        int choice, num1, num2;
        System.out.println("Enter number1: ");
        num1 = sc.nextInt();
        System.out.println("Enter number2: ");
        num2 = sc.nextInt();
        System.out.println("Enter choice: \n1: Add \n2: Subtract \n
                3: Div \n 4: Multiply \n* 5: Exit");
        choice = sc.nextInt();
        switch(choice){
        case 1: System.out.println(num1 + num2); break;
        case 2: System.out.println(num1 - num2); break;
        case 3: System.out.println(num1 / num2); break;
        case 4: System.out.println(num1 * num2); break;
        case 5: System.out.println("Exit"); break;
        default: System.out.println("Wrong choice");
    }
}
```

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Ques-2-

```
// Interface Circle → Circle.java
public interface Circle{
    public void draw();
    public void erase();
}

// Interface Square → Square.java
public interface Square{
    public void draw();
    public void erase();
}

// Interface Triangle → Triangle.java
public interface Triangle{
    public void draw();
    public void erase();
}

// Shape class → Shape.java
public class Shape{
    public static void main(String[] args){
    //anonymous class implementation → circle
    Circle c = new Circle(){
        public void draw(){
            System.out.println("Draw of circle");
        }
        public void erase(){
            System.out.println("Erase of circle");
        }
    };
    c.draw();
    c.erase();
```

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```
// Anonymous class Implementation → Square
Square s = new Square(){
        public void draw(){
            System.out.println("Draw Square");
        }
        public void erase(){
            System.out.println("Erase of Square");
        }
};
s.draw();
s.erase();
// Anonymous class Implementation → Triangle
Triangle t = new Triangle(){
        public void draw(){
            System.out.println("Draw of Triangle");
        }
        public void erase(){
            System.out.println("Erase of Triangle");
        }
};
t.draw();
t.erase();

} //end of main
} //end of class
```

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Ques 3-

```
import java.io.*;
import java.util.Scanner;
public class FileHandling { public static void main (String [] a) {
    // String path1 = "existingfile.txt"; → not required
      String path = "newfile.txt";  // new file location
      File newFile = new File(path);
      try {
          newFile.createNewFile();
      } catch (Exception e) { e.printStackTrace() }
    Scanner sc = new Scanner (System.in).useDelimiter ("\n");
    String str = sc.nextLine();
    FileWriter fout = new FileWriter(path); // writing file
    fout.write(str);
    fout.close();
     // Reading File
    FileReader fin = new FileReader(path);
    int i;
    while ((i = fin.read()) != -1) {
        System.out.print ((char) i);
    }
    fin.close();
} // end of main
} // end of class
```