## JAVA PRACTICAL LAB 1

```
»<sub>25</sub>
                                                                        _ _
🗾 javaprog.java
                31
 32
                     case '*':
 33
                        result = num1 * num2;
 34
                        break;
 35
                     case '/':
 36
 37
                        if (num2 == 0) {
                           throw new ArithmeticException("Error! cannot div
 38
 39
 40
                        result = num1 / num2;
 41
                        break;
 42
 43
                    default:
 44
                        throw new IllegalArgumentException("operator not val
 45
                }
 46
 47
48
 49
                System.out.println("results: " + result);
50
51
            } catch (Exception e) {
                System.out.println("error: " + e.getMessage());
52
            } finally {
53
54
                sc.close();
55
56
        }
57 }
58
```

```
»<sub>25</sub>
                                              javaprac2.java
                                                                                                   🔊 javaprog.java
                        🚺 javaprac1.java 🗶
    19
    20
    21
                       switch (operator) {
                            case '+':
    22
    23
                                 result = num1 + num2;
    24
                                 break;
    25
    26
                               case '-':
    27
    28
                                 result = num1 - num2;
    29
                                 break;
    30
    31
    32
                              case '*':
    33
                                 result = num1 * num2;
    34
                                 break;
    35
                             case '/':
    36
    37
                                 if (num2 == 0) {
    38
                                      throw new ArithmeticException("Error! cannot div
    39
    40
                                 result = num1 / num2;
    41
                                 break;
    42
    43
                             default:
    44
                                 throw new IllegalArgumentException("operator not vai
    45
                       }
    46
                           _ _
                                  📝 javaprog.java 📝 javaprac1.java 🗴 📝 javaprac2.java
                                                                                   >>
25
                                                                                                       _ _

☐ Package Explorer 

X

                                   1 import java.util.Scanner;
                    E & 8
public class javaprac1 {
  > A JRE System Library [JavaSE-23]
                                          public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
                                    40
  🗸 🌐 (default package)
      > 🗾 javaprac1.java
                                              try {
                                   8
      > 🚺 javaprac2.java
                                                 System.out.print("num1: ");
int num1 = sc.nextInt();
                                   10
  > M JRE System Library [JavaSE-23]
                                   11
                                                 System.out.print("Enter only specific operator (+, -, *, /)
                                   12
  🗸 进 src
                                                 char operator = sc.next().charAt(0);
                                   13
    > 🕖 Factorial.java
                                   15
                                                 System.out.print("num2: ");
      > 🔊 javaprog.java
                                                 int num2 = sc.nextInt();
      > 🚺 MathOperation.java
                                   17
      > 🚺 pratikcode.java
                                                 int result;
                                   19
      > 🚺 Program1.java
                                   20
      > 🚺 program10.java
                                   21
                                                 switch (operator) {
      > 🛃 program11.java
                                   22
      > / program12.java
                                   23
                                                         result = num1 + num2;
                                   24
                                                         break;
      > 🕖 program13.java
                                   25
      > I program14.java
                                   26
      > 🕖 program15.java
                                                       case '-':
      > 🛃 program16.java
                                                         result = num1 - num2;
import java.util.Scanner;
public class javaprac1 {
        public static void main(String[] args) {
     Scanner sc = new Scanner(System.in);
```

```
try {
            System.out.print("num1: ");
            int num1 = sc.nextInt();
            System.out.print("Enter only specific operator (+, -, *, /): ");
            char operator = sc.next().charAt(0);
            System.out.print("num2: ");
            int num2 = sc.nextInt();
            int result;
            switch (operator) {
                case '+':
                    result = num1 + num2;
                    break;
                  case '-':
                    result = num1 - num2;
                    break;
                 case '*':
                    result = num1 * num2;
                    break;
                 case '/':
                    if (num2 == 0) {
                        throw new ArithmeticException("Error! cannot divide by
zero");
                    result = num1 / num2;
                    break;
                default:
                    throw new IllegalArgumentException("operator not valid");
            }
            System.out.println("results: " + result);
        } catch (Exception e) {
            System.out.println("error: " + e.getMessage());
        } finally {
            sc.close();
    }
}
```

## **JAVA PRACTICAL LAB 2**

```
javaprac 1. java
javaprog.java
 23
                 System.out.println("Withdrawn: " + amount);
 24
             }
 25
         }
 26
 27⊝
         public void showBalance() {
 28
             System.out.println("Current Balance: " + balance);
 29
 30 }
 31
 32 public class javaprac2 {
 33⊖
         public static void main(String[] args) {
 34
             Scanner scanner = new Scanner(System.in);
 35
             BankAccount account = new BankAccount(1000);
 36
 37
             System.out.println("Enter deposit amount:");
 38
             double depositAmount = scanner.nextDouble();
 39
             account.deposit(depositAmount);
 40
             account.showBalance();
 41
 42
             System.out.println("Enter withdraw amount:");
 43
             double withdrawAmount = scanner.nextDouble();
 44
             account.withdraw(withdrawAmount);
 45
             account.showBalance();
 46
 47
             scanner.close();
 48
     }
 49
 50
                                                              AA 92 | E3 E3 E4
(A)
```

```
- -
                                             javaprac2.java × 325
javaprog.java
                       javaprac1.java
  17
  18⊖
           public void withdraw(double amount) {
  19
                 if (amount > balance) {
                      System.out.println("Insufficient balance!");
  20
  21
                 } else {
  22
                      balance -= amount;
                      System.out.println("Withdrawn: " + amount);
  23
                 }
  24
            }
  25
  26
  27⊝
           public void showBalance() {
  28
                 System.out.println("Current Balance: " + balance);
  29
  30
      }
  31
  32
     public class javaprac2 {
  33⊕
           public static void main(String[] args) {
  34
                 Scanner scanner = new Scanner(System.in);
  35
                 BankAccount account = new BankAccount(1000);
  36
  37
                 System.out.println("Enter deposit amount:");
  38
                 double depositAmount = scanner.nextDouble();
  39
                 account.deposit(depositAmount);
  40
                 account.showBalance();
  41
                 System.out.println("Enter withdraw amount:");
  42
                 double withdrawAmount = scanner.nextDouble();
  43
  44
                 account.withdraw(withdrawAmount);
                                     import java.util.Scanner;

▼ B JAVA_LMS_PRAC

  > M JRE System Library [JavaSE-23]
                                      class BankAccount {
  private double balance;
    (default package)
                                           public BankAccount(double initialBalance) {
      > J javaprac1.java
                                              balance = initialBalance:
      > 🚺 javaprac2.java
10
  > M JRE System Library [JavaSE-23]
                                  119
                                         public void deposit(double amount) {
  🗸 进 src
                                             balance += amount;
                                  13
                                             System.out.println("Deposited: " + amount);
    🗸 🔠 (default package)
                                  14
      > 🕖 Factorial.java
                                  15
      > <section-header> javaprog.java
                                  16
      > 🚺 MathOperation.java
                                  17
                                  18⊖
                                          public void withdraw(double amount) {
      > 🚺 pratikcode.java
                                  19
                                             if (amount > balance)
      > I Program1.java
                                                 System.out.println("Insufficient balance!");
      > 🚺 program10.java
                                  21
      > <section-header> program11.java
                                                 balance -= amount;
                                  22
      > 🚺 program12.java
                                  23
                                                 System.out.println("Withdrawn: " + amount);
                                  24
      > 🔃 program13.java
                                  25
                                          }
      > 🚺 program14.java
                                  26
      > 🔃 program15.java
                                         public void showBalance() {
    System.out.println("Current Balance: " + balance);
                                  27⊝
      > 🚮 program16.java
                                  28
      > 🛃 program17.java
      > 🔝 program18.iava
<terminated> javaprac2 [Java Application] C:\Users\Ricky\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_23.0.1.v202410
Current Balance: 20999.0
Enter withdraw amount:
Withdrawn: 7777.0
Current Balance: 13222.0
```

```
javaprac2 [Java Application] C:\Users\Kicky\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x8b_b4_23.0.1.v2024
Enter deposit amount:
19999
Deposited: 19999.0
Current Balance: 20999.0
Enter withdraw amount:
import java.util.Scanner;
class BankAccount {
       private double balance;
      public BankAccount(double initialBalance) {
         balance = initialBalance;
    }
    public void deposit(double amount) {
        balance += amount;
        System.out.println("Deposited: " + amount);
    }
    public void withdraw(double amount) {
        if (amount > balance) {
             System.out.println("Insufficient balance!");
        } else {
            balance -= amount;
            System.out.println("Withdrawn: " + amount);
        }
    }
    public void showBalance() {
        System.out.println("Current Balance: " + balance);
    }
}
public class javaprac2 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        BankAccount account = new BankAccount(1000);
        System.out.println("Enter deposit amount:");
        double depositAmount = scanner.nextDouble();
        account.deposit(depositAmount);
        account.showBalance();
        System.out.println("Enter withdraw amount:");
        double withdrawAmount = scanner.nextDouble();
        account.withdraw(withdrawAmount);
        account.showBalance();
        scanner.close();
    }
}
```