## **Session-3 Lab**

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```
ASSIGNMENT 07
package com.san.jay;
public class BankAccount {
       private String accountHolderName;
       private String bankName;
       private double accountBalance;
// Constructor
       public BankAccount(String accountHolderName, String bankName, double initialBalance) {
               this.accountHolderName = accountHolderName;
               this.bankName = bankName;
               this.accountBalance = initialBalance;
       }
// Method to get balance
       public double getBalance() {
               return accountBalance;
       }
// Method to deposit money
       public void deposit(double amount) {
               if (amount > 0) {
               accountBalance += amount;
               System. out. println(amount + " deposited into " + accountHolderName + " (" + bankName + ")");
               } else {
               System.out.println("Deposit amount must be positive.");
               }
       }
// Method to withdraw money
       public void withdraw(double amount) {
               if (amount > 0 && amount <= accountBalance) {</pre>
               accountBalance -= amount;
               System.out.println(amount + " withdrawn from " + accountHolderName + " (" + bankName + ")");
```

} else {

```
System.out.println("Insufficient balance or invalid withdrawal amount.");
               }
        }
// Method to display account details
        public void displayAccountDetails() {
                System.out.println("Account Holder: " + accountHolderName);
                System.out.println("Bank: " + bankName);
                System.out.println("Balance: " + accountBalance);
               System.out.println("******************************);
       }
// Main method
        public static void main(String[] args) {
// Creating three bank accounts
        BankAccount acc1 = new BankAccount("Sanjay", "ICICI", 5000);
        BankAccount acc2 = new BankAccount("Ramesh", "HDFC", 7000);
        BankAccount acc3 = new BankAccount("Priya", "SBI", 10000);
// Perform deposit and withdrawal
        acc1.deposit(2000);
        acc1.withdraw(1500);
        acc1.displayAccountDetails();
        acc2.deposit(3000);
        acc2.withdraw(5000);
        acc2.displayAccountDetails();
        acc3.deposit(5000);
        acc3.withdraw(12000); // Should show insufficient balance
        acc3.displayAccountDetails();
        }
}
```

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## **ASSIGNMENT 07 – OUTPUT**

```
Assignment - Assignment07_18092025/src/com/san/jay/BankAccount.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer × ■ 🛢 🖰 🗖 🖟 BankAccount.java ×
                         4 9∘
                                  public static void main(String[] args) {
> > Assignment01_21082025
> ≅ Assignment02_21082025
> ≅ Assignment03_21082025
                         Problems @ Javadoc  □ Declaration □ Console ×
> ≅ Assignment04_21082025
                         <terminated> BankAccount [Java Application] C\eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.5.v20221102-0933\jre\bin\javaw.exe (17-Sep-2025, 11)
 2000.0 deposited into Sanjay (ICICI)
 Assignment06_29082025
                         1500.0 withdrawn from Sanjay (ICICI)
~ ≅ Assignment07_18092025
                         Account Holder: Sanjay
 > ■ JRE System Library [JavaSE-17]
                         Bank: ICICI
                         Balance: 5500.0

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                         *******
   > 🛭 BankAccount.java
                         3000.0 deposited into Ramesh (HDFC)
  > 🛭 module-info.java
                         5000.0 withdrawn from Ramesh (HDFC)
                         Account Holder: Ramesh
                         Bank: HDFC
                         Balance: 5000.0
                         5000.0 deposited into Priya (SBI)
                         12000.0 withdrawn from Priya (SBI)
                         Account Holder: Priya
                         Bank: SBI
                         Balance: 3000.0
                                                                        Smart Insert 67 : 6 : 2303
                                                           Writable
```

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```
ASSIGNMENT 08
```

```
package com.san.jay;
//Subclass Cat
public class Cat extends Animals {
        @Override
        public void makeSound() {
                System.out.println("The cat meows.");
       }
}
package com.san.jay;
import java.util.Scanner;
//mainclass Animal test
public class AnimalTest {
        public static void main(String[] args) {
                Scanner scanner = new Scanner(System.in);
                System.out.println("Choose an animal (1. Animal, 2. Dog, 3. Cat): ");
                Int choice = scanner.nextInt();
                Animals myAnimal; // Reference of superclass
                switch (choice) {
                        case 1:
                            myAnimal = new Animals();
                            break;
                        case 2:
                            myAnimal = new Dog();
                            break;
                        case 3:
                            myAnimal = new Cat();
                            break;
                       default:
                            System. out. println ("Invalid choice! Defaulting to Animal.");
                            myAnimal = new Animals();
               }
               // Polymorphism in action
                myAnimal.makeSound();
```

```
scanner.close();
}
```

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## **ASSIGNMENT 06 – OUTPUT**

}

```
S Assignment - Assignment08_18092025/src/com/san/jay/AnimalTest.java - Eclipse IDE
□ Package Explorer × □ S S □ □ □ Animals.java □ Dog.java □ Cat.java □ AnimalTest.java ×
> > Assignment01_21082025
                                                                            1 package com.san.jay;
> ≅ Assignment02_21082025
→ 🐸 Assignment03_21082025
                                                                            3 import java.util.Scanner;
→ Sasignment04_21082025
>  Assignment05_29082025
>  Assignment06_29082025
                                                                            6 //mainclass Animal test
>  Assignment07_18092025
                                                                            7 public class AnimalTest {

✓ Sassignment08_18092025

   → M JRE System Library [JavaSE-17]
                                                                         8

✓ B src

                                                                            9
                                                                                                  public static void main(String[] args) {

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                                                                                                                 Scanner scanner = new Scanner(System.in);
          > 🛮 Animals.java
                                                                         11
           AnimalTest.java
                                                                                                                 System.out.println("Choose an animal (1. Animal, 2. Dog, 3. Cat): ");
                                                                         12
          Cat.java
          Dog.java
                                                                                                                                                                                                                                                                                                                   Problems ● Javadoc B Declaration  Console ×
        > 🛭 module-info.java
                                                                        < terminated > Animal Test \ [Java Application] \ C\ (eclipse\ (plugins\ (org. eclipse justj. openjdk. hotspot. jre. full.win32.x86\_64\_17.0.5.v20221102-0933 \ yire\ (bin\ (java w.exe. (17-Sep-2025, 12:1) \ yire\ (17-Sep-2025
                                                                        Choose an animal (1. Animal, 2. Dog, 3. Cat):
                                                                        The dog barks.
```