

Java Internship Report

Java Internship - Source Code Report

Name : Ak

College : Meenakshi College of Engineering

Domain : Java Development

Tasks : Task 1 to 6

Java Internship Report

ReservationSystem

```
import java.util.*;

public class ReservationSystem {
    static Scanner sc = new Scanner(System.in);
    static String username = "admin", password = "1234";
    static String reservedPNR = "";

    public static void main(String[] args) {
        System.out.print("Enter Username: ");
        String user = sc.nextLine();
        System.out.print("Enter Password: ");
        String pass = sc.nextLine();

        if (user.equals(username) && pass.equals(password)) {
            System.out.println("Login successful!");
            showMenu();
        } else {
            System.out.println("Login failed.");
        }
    }

    public static void showMenu() {
        while (true) {
            System.out.println("\n1. Reserve Ticket\n2. Cancel Ticket\n3. Exit");
            int choice = sc.nextInt();
            switch (choice) {
                case 1: reserve(); break;
                case 2: cancel(); break;
                case 3: System.exit(0);
                default: System.out.println("Invalid option.");
            }
        }
    }

    public static void reserve() {
        sc.nextLine();
        System.out.print("Enter Name: ");
        String name = sc.nextLine();
        System.out.print("Enter From: ");
        String from = sc.nextLine();
        System.out.print("Enter To: ");
        String to = sc.nextLine();
        System.out.print("Enter Date of Travel: ");
        String date = sc.nextLine();
        reservedPNR = "PNR" + new Random().nextInt(9999);
        System.out.println("Reservation successful. PNR: " + reservedPNR);
    }

    public static void cancel() {
```

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```
sc.nextLine();
System.out.print("Enter your PNR to cancel: ");
String pnr = sc.nextLine();
if (pnr.equals(reservedPNR)) {
    System.out.println("Cancellation successful.");
    reservedPNR = "";
} else {
    System.out.println("PNR not found.");
}
}
}
```

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NumberGuess

```
import java.util.*;

public class NumberGuess {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        Random r = new Random();
        int number = r.nextInt(100) + 1, guess, tries = 0;

        System.out.println("Guess the number between 1 and 100");

        do {
            System.out.print("Enter your guess: ");
            guess = sc.nextInt();
            tries++;
            if (guess < number)
                System.out.println("Too low!");
            else if (guess > number)
                System.out.println("Too high!");
        } while (guess != number);

        System.out.println("Correct! You took " + tries + " attempts.");
    }
}
```

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ATMInterface

```
import java.util.*;

public class ATMInterface {
    static Scanner sc = new Scanner(System.in);
    static int balance = 1000;
    static List<String> history = new ArrayList<>();

    public static void main(String[] args) {
        System.out.print("Enter PIN: ");
        int pin = sc.nextInt();

        if (pin == 1234) {
            int choice;
            do {
                System.out.println("\n1. Check Balance\n2. Deposit\n3. Withdraw\n4. View
History\n5. Exit");
                choice = sc.nextInt();
                switch (choice) {
                    case 1: System.out.println("Balance: Rs. " + balance); break;
                    case 2: deposit(); break;
                    case 3: withdraw(); break;
                    case 4: viewHistory(); break;
                    case 5: System.out.println("Thank you!"); break;
                    default: System.out.println("Invalid choice.");
                }
            } while (choice != 5);
        } else {
            System.out.println("Invalid PIN.");
        }
    }

    public static void deposit() {
        System.out.print("Enter amount to deposit: ");
        int amt = sc.nextInt();
        balance += amt;
        history.add("Deposited: Rs. " + amt);
    }

    public static void withdraw() {
        System.out.print("Enter amount to withdraw: ");
        int amt = sc.nextInt();
        if (amt <= balance) {
            balance -= amt;
            history.add("Withdrawn: Rs. " + amt);
        } else {
            System.out.println("Insufficient funds.");
        }
    }
}
```

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```
public static void viewHistory() {  
    System.out.println("Transaction History:");  
    for (String entry : history)  
        System.out.println(entry);  
}  
}
```

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OnlineExam

```
import java.util.*;

public class OnlineExam {
    static Scanner sc = new Scanner(System.in);
    static String[][] questions = {
        {"Java is a?", "1. Language", "2. Database", "3. OS", "4. Compiler", "1"},
        {"OOP stands for?", "1. Object Oriented Programming", "2. Order of Process", "3. Output of Program", "4. Option Oriented Process", "1"}
    };

    public static void main(String[] args) {
        System.out.print("Enter Username: ");
        String user = sc.nextLine();
        System.out.print("Enter Password: ");
        String pass = sc.nextLine();

        if (user.equals("student") && pass.equals("pass")) {
            int score = 0;
            for (String[] q : questions) {
                System.out.println("\n" + q[0]);
                System.out.println(q[1]);
                System.out.println(q[2]);
                System.out.println(q[3]);
                System.out.println(q[4]);
                System.out.print("Enter option (1-4): ");
                String ans = sc.nextLine();
                if (ans.equals(q[5]))
                    score++;
            }
            System.out.println("\nExam Over. Your Score: " + score + "/" + questions.length);
        } else {
            System.out.println("Invalid credentials.");
        }
    }
}
```

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QuizApp

```
import java.util.*;

public class QuizApp {
    static Scanner sc = new Scanner(System.in);
    public static void main(String[] args) {
        String[] questions = {
            "What is the extension of Java files?\n1. .js\n2. .java\n3. .txt\n4. .py",
            "Which company developed Java?\n1. Microsoft\n2. Google\n3. Sun Microsystems\n4.
Oracle"
        };
        int[] answers = {2, 3};
        int score = 0;

        for (int i = 0; i < questions.length; i++) {
            System.out.println("\n" + questions[i]);
            System.out.print("Enter your answer: ");
            int ans = sc.nextInt();
            if (ans == answers[i]) score++;
        }

        System.out.println("\nYour final score is: " + score + "/" + questions.length);
    }
}
```


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Stopwatch

```
public class Stopwatch {  
    public static void main(String[] args) throws InterruptedException {  
        System.out.println("Stopwatch Started...");  
        for (int i = 0; i <= 10; i++) {  
            System.out.print("\rTime: " + i + " seconds");  
            Thread.sleep(1000);  
        }  
        System.out.println("\nStopwatch Ended.");  
    }  
}
```