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package Switch10;
import java.util.Scanner;
//Challenge: Create a calculator using switch.
public class Challenge1 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter first number: ");
        int a = sc.nextInt();
        System.out.print("Enter second number: ");
        int b = sc.nextInt();
        System.out.print("Enter operator (+, -, *, /): ");
        char operation = sc.next().charAt(0);
        switch (operation) {
            case '+':
                System.out.println("Result: " + (a + b));
                break;
            case '-':
                System.out.println("Result: " + (a - b));
                break;
            case '*':
                System.out.println("Result: " + (a * b));
                break;
            case '/':
                System.out.println("Cannot divide by zero");
                break;
            default:
                System.out.println("Invalid operator");
        }
        sc.close();
    }
}

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package Switch10;
import java.util.Scanner;
//Challenge: Map number to month name using switch.
public class Challenge2 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number from 1 to 12 to get month name: ");
        int month = sc.nextInt();
        switch (month) {
            case 1:
                System.out.println("January");
                break;
            case 2:
                System.out.println("February");
                break;
            case 3:

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        System.out.println("March");
        break;
    case 4:
        System.out.println("April");
        break;
    case 5:
        System.out.println("May");
        break;
    case 6:
        System.out.println("June");
        break;
    case 7:
        System.out.println("July");
        break;
    case 8:
        System.out.println("August");
        break;
    case 9:
        System.out.println("September");
        break;
    case 10:
        System.out.println("October");
        break;
    case 11:
        System.out.println("November");
        break;
    case 12:
        System.out.println("December");
        break;
    default:
        System.err.println("Invalid input");
    }
    sc.close();
}
}
}

```

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package Switch10;
import java.util.Scanner;
//Challenge: Implement a simple menu using switch.
public class Challenge3 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("WELCOME\n1. Home\n2. About\n3. Gallery\n4. Blogs\n5.
Logout\n6. Profile\n Please enter a valid input: ");
        int choice = sc.nextInt();
        switch (choice) {
            case 1:

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        System.out.println("Welcome to Home page");
        break;
    case 2:
        System.out.println("Welcome to About page");
        break;
    case 3:
        System.out.println("Welcome to Gallery page");
        break;
    case 4:
        System.out.println("Welcome to Blogs page");
        break;
    case 5:
        System.out.println("You have been logged out.");
        break;
    case 6:
        System.out.println("Welcome to Profile page");
        break;
    default:
        System.err.println("Invalid choice");
    }
    sc.close();
}
}

```

```

package Switch10;
import java.util.Scanner;
//Challenge: Use enhanced switch (Java 14+) for better syntax.
public class Challenge4 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("WELCOME\n1. Home\n2. About\n3. Gallery\n4. Blogs\n5.
Logout\n6. Profile\n Please enter a valid input: ");
        int choice = sc.nextInt();
        switch (choice) {
            case 1 -> System.out.println("Welcome to Home page");
            case 2 -> System.out.println("Welcome to About page");
            case 3 -> System.out.println("Welcome to Gallery page");
            case 4 -> System.out.println("Welcome to Blogs page");
            case 5 -> System.out.println("You have been logged out.");
            case 6 -> System.out.println("Welcome to Profile page");
            default -> System.err.println("Invalid choice");
        }
        sc.close();
    }
}

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package Switch10;
import java.util.Scanner;
//Challenge: Implement day of the week based on integer input.
public class Challenge5 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number from 1 to 7 to get weekday names: ");
        int week = sc.nextInt();
        switch (week) {
            case 1:
                System.out.println("Sunday");
                break;
            case 2:
                System.out.println("Monday");
                break;
            case 3:
                System.out.println("Tuesday");
                break;
            case 4:
                System.out.println("Wednesday");
                break;
            case 5:
                System.out.println("Thursday");
                break;
            case 6:
                System.out.println("Friday");
                break;
            case 7:
                System.out.println("Saturday");
                break;

            default:
                System.err.println("Invalid input");
        }
        sc.close();
    }
}
```