

```
package cc;

public class cc {

    public double dollarToInr(double dollars) {
        return dollars * 83.50;
    }

    public double inrToDollar(double inr) {
        return inr / 83.50;
    }

    public double euroToInr(double euros) {
        return euros * 90.75;
    }

    public double inrToEuro(double inr) {
        return inr / 90.75;
    }

    public double yenToInr(double yen) {
        return yen * 0.53;
    }

    public double inrToYen(double inr) {
        return inr / 0.53;
    }
}
```

```
package discon;

public class discon {

    public double meterToKm(double meters) {
        return meters / 1000;
    }

    public double kmToMeter(double km) {
        return km * 1000;
    }

    public double milesToKm(double miles) {
        return miles * 1.60934;
    }

    public double kmToMiles(double km) {
        return km / 1.60934;
    }
}
```

```
package timecon;

public class timecon {

    public double hoursToMinutes(double hours) {
        return hours * 60;
    }

    public double minutesToHours(double minutes) {
        return minutes / 60;
    }

    public double hoursToSeconds(double hours) {
        return hours * 3600;
    }

    public double secondsToHours(double seconds) {
        return seconds / 3600;
    }
}
```

```
import cc.cc;
import discon.discon;
import timecon.timecon;
import java.util.Scanner;

public class Converter {

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int mainChoice;

        do {
            System.out.println("\n--- Main Menu ---");
            System.out.println("1. Currency Converter");
            System.out.println("2. Distance Converter");
            System.out.println("3. Time Converter");
            System.out.println("4. Exit");
            System.out.print("Enter your choice: ");

            while (!scanner.hasNextInt()) {
                System.out.print("Invalid input. Please enter a number between 1 and 4: ");
                scanner.next();
            }
            mainChoice = scanner.nextInt();

            switch (mainChoice) {
                case 1 -> curcon(scanner);
                case 2 -> distconv(scanner);
                case 3 -> timeconv(scanner);
                case 4 -> System.out.println("Exiting the application.");
                default -> System.out.println("Invalid choice. Please enter a number between 1
and 4.");
            }
        } while (mainChoice != 4);

        scanner.close();
    }

    public static void curcon(Scanner scanner) {
        cc curr = new cc();
        System.out.println("\n--- Currency Converter Menu ---");
        System.out.println("1. Dollar to INR");
        System.out.println("2. INR to Dollar");
        System.out.println("3. Euro to INR");
        System.out.println("4. INR to Euro");
        System.out.println("5. Yen to INR");
        System.out.println("6. INR to Yen");
        System.out.print("Enter your choice: ");

        int choice = scanner.nextInt();
        System.out.print("Enter the amount to convert: ");
        double amount = scanner.nextDouble();

        switch (choice) {
            case 1 -> System.out.printf("%.2f USD is equal to %.2f INR%n", amount,
curr.dollarToInr(amount));
            case 2 -> System.out.printf("%.2f INR is equal to %.2f USD%n", amount,
curr.inrToDollar(amount));
```

```
        case 3 -> System.out.printf("%.2f EUR is equal to %.2f INR%n", amount,
curr.euroToInr(amount));
        case 4 -> System.out.printf("%.2f INR is equal to %.2f EUR%n", amount,
curr.inrToEuro(amount));
        case 5 -> System.out.printf("%.2f JPY is equal to %.2f INR%n", amount,
curr.yenToInr(amount));
        case 6 -> System.out.printf("%.2f INR is equal to %.2f JPY%n", amount,
curr.inrToYen(amount));
        default -> System.out.println("Invalid currency conversion choice.");
    }
}

public static void distconv(Scanner scanner) {
    dicon dc = new dicon();
    System.out.println("\n--- Distance Converter Menu ---");
    System.out.println("1. Meter to Kilometer");
    System.out.println("2. Kilometer to Meter");
    System.out.println("3. Miles to Kilometer");
    System.out.println("4. Kilometer to Miles");
    System.out.print("Enter your choice: ");

    int choice = scanner.nextInt();
    System.out.print("Enter the distance to convert: ");
    double distance = scanner.nextDouble();

    switch (choice) {
        case 1 -> System.out.printf("%.2f meters is equal to %.2f km%n", distance,
dc.meterToKm(distance));
        case 2 -> System.out.printf("%.2f km is equal to %.2f meters%n", distance,
dc.kmToMeter(distance));
        case 3 -> System.out.printf("%.2f miles is equal to %.2f km%n", distance,
dc.milesToKm(distance));
        case 4 -> System.out.printf("%.2f km is equal to %.2f miles%n", distance,
dc.kmToMiles(distance));
        default -> System.out.println("Invalid distance conversion choice.");
    }
}

public static void timeconv(Scanner scanner) {
    timecon tc = new timecon();
    System.out.println("\n--- Time Converter Menu ---");
    System.out.println("1. Hours to Minutes");
    System.out.println("2. Minutes to Hours");
    System.out.println("3. Hours to Seconds");
    System.out.println("4. Seconds to Hours");
    System.out.print("Enter your choice: ");

    int choice = scanner.nextInt();
    System.out.print("Enter the time to convert: ");
    double time = scanner.nextDouble();

    switch (choice) {
        case 1 -> System.out.printf("%.2f hours is equal to %.2f minutes%n", time,
tc.hoursToMinutes(time));
        case 2 -> System.out.printf("%.2f minutes is equal to %.2f hours%n", time,
tc.minutesToHours(time));
        case 3 -> System.out.printf("%.2f hours is equal to %.2f seconds%n", time,
tc.hoursToSeconds(time));
```

```
        case 4 -> System.out.printf("%.2f seconds is equal to %.2f hours%n", time,
tc.secondsToHours(time));
        default -> System.out.println("Invalid time conversion choice.");
    }
}
```

```
vangduk@vangduksubject:~/project$ javac cc/cc.java
vangduk@vangduksubject:~/project$ javac discon/discon.java
vangduk@vangduksubject:~/project$ javac timecon/timecon.java
vangduk@vangduksubject:~/project$ javac Converter.java
vangduk@vangduksubject:~/project$ java Converter
```

--- Main Menu ---

1. Currency Converter
2. Distance Converter
3. Time Converter
4. Exit

Enter your choice: 1

--- Currency Converter Menu ---

1. Dollar to INR
2. INR to Dollar
3. Euro to INR
4. INR to Euro
5. Yen to INR
6. INR to Yen

Enter your choice: 4

Enter the amount to convert: 12054

12054.00 INR is equal to 132.83 EUR

--- Main Menu ---

1. Currency Converter
2. Distance Converter
3. Time Converter
4. Exit

Enter your choice: 1

--- Currency Converter Menu ---

1. Dollar to INR
2. INR to Dollar
3. Euro to INR
4. INR to Euro
5. Yen to INR
6. INR to Yen

Enter your choice: 6

Enter the amount to convert: 5431

5431.00 INR is equal to 10247.17 JPY

--- Main Menu ---

1. Currency Converter
2. Distance Converter
3. Time Converter
4. Exit

Enter your choice: 2

--- Distance Converter Menu ---

1. Meter to Kilometer
2. Kilometer to Meter
3. Miles to Kilometer
4. Kilometer to Miles

Enter your choice: 2

Enter the distance to convert: 933

933.00 km is equal to 933000.00 meters

--- Main Menu ---

1. Currency Converter
2. Distance Converter
3. Time Converter
4. Exit

Enter your choice: 3

--- Time Converter Menu ---

```
1. Hours to Minutes
2. Minutes to Hours
3. Hours to Seconds
4. Seconds to Hours
Enter your choice: 1
Enter the time to convert: 34
34.00 hours is equal to 2040.00 minutes
```

```
--- Main Menu ---
```

```
1. Currency Converter
2. Distance Converter
3. Time Converter
4. Exit
Enter your choice: 1
```

```
--- Currency Converter Menu ---
```

```
1. Dollar to INR
2. INR to Dollar
3. Euro to INR
4. INR to Euro
5. Yen to INR
6. INR to Yen
Enter your choice: 4
Enter the amount to convert: 343
343.00 INR is equal to 3.78 EUR
```

```
--- Main Menu ---
```

```
1. Currency Converter
2. Distance Converter
3. Time Converter
4. Exit
Enter your choice: 3
```

```
--- Time Converter Menu ---
```

```
1. Hours to Minutes
2. Minutes to Hours
3. Hours to Seconds
4. Seconds to Hours
Enter your choice: 4
Enter the time to convert: 1323
1323.00 seconds is equal to 0.37 hours
```

```
--- Main Menu ---
```

```
1. Currency Converter
2. Distance Converter
3. Time Converter
4. Exit
Enter your choice: 4
Exiting the application.
```