import java.util.Scanner;

import java.text.DecimalFormat;

Yeh lines Java mein mojood Scanner aur DecimalFormat classes ko import karte hain. Scanner class istemal hoti hai input ko read karne ke liye aur DecimalFormat class floating point numbers ko specific format mein convert karne ke liye.

public class CurrencyConverter {

public static void main(String[] args) {

// Code for currency conversion

}

}

This is main class. Yeh class program ka main entry point hai. Yahan par user se input liya jata hai aur currency conversion ka process shuru hota hai.

DecimalFormat d = new DecimalFormat("##.###");

Scanner s = new Scanner(System.in);

Yeh lines **DecimalFormat** aur **Scanner** objects ko initialize karte hain. **d** ko **##.###** format mein initialize kiya gaya hai takay output ke floating point numbers ko 3 decimal places tak round kiya ja sake.

Converter[] c = { /\* Converters list \*/ };

Yeh ek array ko initialize karta hai jisme various currency converters ke objects hote hain. Har converter ek **Converter** interface implement karta hai.

for (int i = 0; i < c.length; i++) {

System.out.println((i + 1) + ". " + c[i].getName());

}

Yeh loop currency options ko display karta hai, jisme har ek currency ka naam aur ek number diya gaya hai.

int ci = s.nextInt() - 1; // Array ke index ke liye adjust kar raha hai

if (ci >= 0 && ci < c.length) {

Converter cc = c[ci];

// Tabadla karne ka code

} else {

System.out.println("Invalid choice!");

}

Yeh code user se input leta hai aur use currency option choose karne ka mauka deta hai. Input ko validate karke, agar option valid hai to corresponding currency converter object ko select karta hai.

interface Converter {

double convert(double a);

String getName();

String getOutputCurrency();

}

Yeh ek interface hai jo currency converters ke liye ek blueprint provide karta hai. Har converter ko is interface ko implement karna padega.

Har ek currency converter class **Converter** interface ko implement karta hai aur uski apni logic hoti hai. Jaise, **PkrToUsdConverter** PKR se USD mein convert karta hai, **UsdToPkrConverter** USD se PKR mein, aur aise hi.