**NAME : MANGESH A. GHADWAJE**

**ROLL NO:24**

**BATCH : B2**

**COURSE: OOPs PRACTICAL**

**Assginment No. 9**

**Problem Statment :** Write a java program to create User defined exception to check the following conditions and throw the exception if the criterion does not meet. (a) User has age between 18 and 55 (b)User stays has income between Rs.50,000 – Rs. 1,00,000 per month (c) User stays in Pune/ Mumbai/ Bangalore / Chennai (d)User has 4-wheeler Accept age, Income, City, Vehicle from the user and check for the conditions mentioned above. If any of the condition not met then throw the exception.

**CODE:**

import java.util.Scanner;

class InvalidUserException extends Exception {

InvalidUserException(String s) {

super(s);

}

}

public class UserValidation {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter user age: ");

int age = scanner.nextInt();

System.out.print("Enter user income per month (in Rs.): ");

double income = scanner.nextDouble();

System.out.print("Enter user city (Pune/Mumbai/Bangalore/Chennai): ");

String city = scanner.next();

System.out.print("Does user have a 4-wheeler? (true/false): ");

boolean hasFourWheeler = scanner.nextBoolean();

try {

validateUser(age, income, city, hasFourWheeler);

System.out.println("User details are valid.");

} catch (InvalidUserException e) {

System.out.println("Invalid user: " + e.getMessage());

}

}

public static void validateUser(int age, double income, String city, boolean hasFourWheeler) throws InvalidUserException {

if (age < 18 || age > 55) {

throw new InvalidUserException("User must be between 18 and 55 years old.");

}

if (income < 50000 || income > 100000) {

throw new InvalidUserException("User income must be between Rs.50,000 and Rs.1,00,000 per month.");

}

if (!(city.equalsIgnoreCase("Pune") || city.equalsIgnoreCase("Mumbai") ||

city.equalsIgnoreCase("Bangalore") || city.equalsIgnoreCase("Chennai"))) {

throw new InvalidUserException("User must stay in Pune, Mumbai, Bangalore, or Chennai.");

}

if (!hasFourWheeler) {

throw new InvalidUserException("User must have a 4-wheeler.");

}

}

}

**OUTPUT:**

Enter user age: 25

Enter user income per month (in Rs.): 75000

Enter user city (Pune/Mumbai/Bangalore/Chennai): Pune

Does user have a 4-wheeler? (true/false): true

User details are valid.

Enter user age: 60

Enter user income per month (in Rs.): 45000

Enter user city (Pune/Mumbai/Bangalore/Chennai): Delhi

Does user have a 4-wheeler? (true/false): true

Invalid user: User must be between 18 and 55 years old.