Practice Tasks

Task 5.1 - Menu Application

Create a class and add the main method.
Print a menu showing 5 food options to user
Ex:
1. Chicken 65
2. Paneer
3. etc….

Take Input from the user by asking them to enter the option of food to order.
Based on user input print the output in below format.
If the user enters 1 : Print Your Chicken 65 order placed successfully.
If the user enters 2 : Print Your Panner order placed successfully.

Task 5.2 - Basic Calculator Application

Create a class and add the main method.
Take one character input from the user using nextLine().
Inputs should only be **+ , - , * , / , %** .
Take two numbers as input from user and store them in 2 variables
Now based on the character input Perform the arithmetic operation and print the output.
Use **Switch - Case** to solve this problem.
Ex:

Input : **+ , 5 , 10**
Output : **15**

Input : *** , 6 , 5**
Output : **30**

Task 5.3 - Leap Year

Create a class and add the main method.
Take a number input from the user and store it in a variable called year.
Based on the year, calculate if the given year is a leap year or not.
Print **"Leap Year"** or **"Not a Leap Year"**
Use if else statements to solve this problem.

Hint : A year can be leap year if it is exactly divided by 4 and not divisible by 100 or it should be divisible by 400

Ex: 1996 - Divisible by 4 and not divisible by 100 -> Leap Year
    1997 - Not Divisible by 4 and not divisible by 100 -> Not a Leap Year
    2000 - Divisible by 4 and not divisible by 100 But divisible by 400 -> Leap Year
  2100- Divisible by 4 and not divisible by 100 and Not divisible by 400 also -> Not Leap Year

Task 5.3 - Command Line Arguments

Create a class and add the main method.
Write a program that accepts Strings from command line arguments
Use concatenation to add "**Edutech"** in between strings and print output in below format.
> **Input1** : FLM , Hyderabad
> **Output1** : **"FLM Edutech Hyderabad"**
>
> **Input1** : FLM , Banglore
> **Output1** : **"FLM Edutech Banglore"**

Task 5.4 - Largest Number

Create a class and add the main method.
Take three number inputs from the user as num1 , num2, num3
Using **if else ladder** Print the largest number among the 3 numbers

Input : 30 , 15 , 27
Output : Largest number : 30

Input : 10 , 17 , 8
Output : Largest number : 17

Task 5.5 - Even and Multiple of 5

Create a class and add the main method.
Take a number input from the user and store it in a variable called num.
If the number is even then check for another condition that the number is divisible by 5 or
not.

Input : 10
Output : Number is Even and Divisible by 5

Input : 18
Output : Number is Even But Not Divisible by 5

Input : 23
Output : Number is Odd

Task 5.6 - Calculate Bill with Discount

Create a class and add the main method.
Take No of products bought as input from the user.
Ask if the user has a premium or not (true or false).

Store Cost of each product as : 1000rs
Every premium user is eligible for a discount of 100rs per product.
Now your task is to calculate the bill by calculating the total bill for all products and by reducing the discount if he is a premium user.

Ex:

Input : No of products = 2
        Is premium user = true

Output : 1800

Explanation : Each product = 1000rs
                2 products = 2000rs
                Discount for 2 products = 200
                FInal bill = 2000 - 200 = 1800

Input2 : No of products = 3
        Is premium user = false

Output : 3000

Explanation : Each product = 1000rs
                3 products = 3000rs
                Discount for 3 products = 0 (Not a premium user)
                FInal bill = 3000 - 0 = 3000

Task 5.7 - Calculate Tax Deducted

Create a class and add the main method.
Take salary as input from the user.
Calculate the tax deducted from the user and print the tax amount to be paid.
Use the below format to calculate tax.

        Salary Less than 2,50,000 -> 0%
        Salary greater than 2,50,000 and less than 5,00,000 -> 5%
        Salary greater than 5,00,000 and less than 10,00,000 -> 20%
        Salary greater than 10,00,000 -> 30%

Ex :

Input : Salary = 2,45,000
Output = No tax

Input : Salary = 6,00,000
Output = 1,20,000 tax

Input : Salary = 10,00,000
Output = 3,00,000