

Project On Flow Control, Switch and Loop:-

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1. Design a project where user should be allowed to perform various operations on number:

Description: Build a project where user will be allowed to perform various number operations

Features:

Use switch case to implement the menu.

Use loops to keep the session active until the user chooses to exit.

Implement basic error handling (e.g., Invalid choice Entered).

Sample Operations:

Press 1=>For Factorial calculation

Press 2=>For Power calculation

Press 3=>To Generate Multiplication Table up to n numbers

Press 4=>For Factorial calculation

Press 5=>To Generate Fibonacci Series

Press 6=>To Check Prime Number

Press 7=>To Reverse a number

Press 8=>To check Palindrome Number

Press 9=>To Generate Multiplication Table up to n numbers

Press 10=>To Calculate total arrangements

Press 11=>To Calculate total Selections

Press 12=>To Generate nth Row of Pascal Triangle

Enter your choice:

2. Design a project for Number Conversion:

Description: Build a project where user will be allowed to perform number conversion

Features:

Use switch case to implement the menu.

Use loops to keep the session active until the user chooses to exit.

Implement basic error handling (e.g., Invalid Number Entered).

Sample Operations:

Press 1=>To Convert Decimal Number to Binary Number

Press 2=>To Convert Binary Number to Decimal Number

Press 3=>To Convert Decimal Number to Octal Number

Press 4=>To Convert Octal Number to Decimal Number

Press 5=>To Convert Decimal Number to Hexadecimal Number

Press 6=>To Convert Hexadecimal Number to Decimal Number

Enter your choice:

3. Simple ATM Interface

Description: Build a simulation of an ATM with features like balance inquiry, deposit, withdrawal, and exit.

Features:

Use switch case to implement the menu.

Use loops to keep the session active until the user chooses to exit.

Implement basic error handling (e.g., insufficient balance).

Sample Operations:

1. Check Balance

2. Deposit Money

3. Withdraw Money

4. Exit

Enter your choice:

4. Electricity Charge Billing System

Description: Create a program to generate electricity charge bill as per units consumed.

Charge for first 50 unit → 8₹/unit

Charge for next 25 unit → 10₹/unit

Charge for next 25 unit → 12₹/unit

Charge for more than 100 unit → 15₹/unit

Features:

Display a menu to enter the total unit consumed for a month.

Calculate the total charge as per unit consumed added with 18% GST charge.

Eg:

Total consumed unit entered= 140 unit

o/p

**Total charge= $50 \times 8 + 25 \times 10 + 25 \times 12 + 40 \times 15 = 400 + 250 + 300 + 600$
=1550₹+ 1550*0.18=1829₹**

5. Menu-Driven Calculator

Description: Create a basic calculator that performs operations like addition, subtraction, multiplication, division, and modulus based on user input.

Features:

Display a menu using switch case.

Perform operations based on user choice.

Use loops to allow multiple calculations until the user chooses to exit.

Sample Input:

Enter 1st Number: 40

Enter 2nd Number: 18

Enter Operation from:

(+, -, *, / or %)

6. Restaurant Billing System

Description: Create a program to generate restaurant bills based on selected menu items.

Features:

Display a menu with items and prices using switch case.

Use a loop to allow users to add multiple items to the bill.

Calculate the total bill added with 18% GST and display it when the user exits.

Sample Menu:

1. Burger - \$5
2. Pizza - \$8
3. Sandwich - \$4

=====END=====