

"""

Personal Finance Calculator

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Purpose: Calculate monthly budget and savings

"""

Collect user inputs

```
print(" == MONTHLY BUDGET CALCULATOR ==")
```

```
monthly_income = float(input("Enter your monthly income (THB): ")) # input float(decimal)
```

```
rent_cost = float(input("Enter your monthly rent/housing cost (THB): "))
```

```
food_budget = int(input("Enter your monthly food budget (THB): ")) # input int(whole number)
```

```
transportation_cost = float(input("Enter your monthly transportation cost (THB): "))
```

```
entertainment_budget = int(input("Enter your monthly entertainment budget (THB): "))
```

```
emergency_fund_percent = float(input("Enter the percentage to save for emergency (e.g., 10.5): "))
```

```
investment_percent = float(input("Enter the percentage to invest (e.g., 15.0): "))
```

Calculate total expenses

```
total_fixed_expenses = rent_cost + transportation_cost
```

```
total_variable_expenses = food_budget + entertainment_budget
```

```
total_expenses = total_fixed_expenses + total_variable_expenses
```

```
remaining_income = monthly_income - total_expenses
```

```
emergency_fund_amount = (emergency_fund_percent / 100) * monthly_income
```

```
investment_amount = (investment_percent / 100) * monthly_income
```

Calculate final savings

```
available_savings = remaining_income - emergency_fund_amount - investment_amount
```

```
expenses_ratio = (total_expenses / monthly_income) * 100
```

Display results

```
print("\n == MONTHLY BUDGET REPORT ==")
```

```
print(f"Income: {monthly_income:.2f} THB")
```

```
print(f"Fixed Expenses: {total_fixed_expenses:.2f} THB")
```

```
print(f"Variable Expenses: {total_variable_expenses:.2f} THB")
```

```
print(f"Total Expenses: {total_expenses:.2f} THB")
```

```
print(f"Remaining: {remaining_income:.2f} THB")
```

```
print("\n == SAVINGS BREAKDOWN ==")
```

```
print(f"Emergency Fund ({emergency_fund_percent}%): {emergency_fund_amount:.2f} THB")
```

```
print(f"Investment ({investment_percent}%): {investment_amount:.2f} THB")
```

```
print(f"Available for Savings: {available_savings:.2f} THB")
```

```
print("\n == ANALYSIS ==")
```

```
print(f"Expenses Ratio: {expenses_ratio:.2f}%")
```

Output

=== MONTHLY BUDGET CALCULATOR ===

Enter your monthly income(THB): 10000
Enter your monthly rent/housing cost(THB): 6500
Enter your monthly food budget(THB): 2000
Enter your monthly transportation cost(THB): 200
Enter your monthly entertainment budget(THB): 500
Enter the percentage to save for emergency (e.g., 10.5): 5
Enter the percentage to invest (e.g., 15.0): 2.5

=== MONTHLY BUDGET REPORT ===

Income: 10000.00 THB
Fixed Expenses: 6700.00 THB
Variable Expenses: 2500.00 THB
Total Expenses: 9200.00 THB
Remaining: 800.00 THB

=== SAVINGS BREAKDOWN ===

Emergency Fund(5.0 %): 500.00 THB
Investment(2.5 %): 250.00 THB
Available for Savings: 50.00 THB

=== ANALYSIS ===

Expenses Ratio: 92.00 %

```
=== MONTHLY BUDGET CALCULATOR ===  
Enter your monthly income(THB): 10000  
Enter your monthly rent/housing cost(THB): 6500  
Enter your monthly food budget(THB): 2000  
Enter your monthly transportation cost(THB): 200  
Enter your monthly entertainment budget(THB): 500  
Enter the percentage to save for emergency(e.g., 10.5): 5  
Enter the percentage to invest(e.g., 15.0): 2.5
```

```
=== MONTHLY BUDGET REPORT ===  
Income: 10000.00 THB  
Fixed Expenses: 6700.00 THB  
Variable Expenses: 2500.00 THB  
Total Expenses: 9200.00 THB  
Remaining: 800.00 THB
```

```
=== SAVINGS BREAKDOWN ===  
Emergency Fund(5.0%): 500.00 THB  
Investment(2.5%): 250.00 THB  
Available for Savings: 50.00 THB
```

```
=== ANALYSIS ===  
Expense Ratio: 92.00%
```