

## **Title:** Smart Budget Planner

### **Problem Statement:**

Many people struggle to manage their money effectively. Without proper tracking, they often overspend and fail to meet their savings goals. This lack of control leads to financial stress and wasted resources. A simple and user-friendly budget planning tool can help users make smarter financial decisions by monitoring expenses, managing balances, and evaluating purchase choices.

### **Project Objectives:**

1. Help users track their income and expenses to prevent overspending.
2. Provide a clear calculation of current balance after expenses.
3. Offer decision support by advising users whether a planned purchase is worth it.
4. Encourage savings and smarter financial management habits.
5. Develop an easy-to-use Python-based system accessible for beginners.

### **Planned Features:**

- Enter current balance.
- Record expenses and calculate updated budget.
- Enter potential purchases (cost + benefits).
- Suggest whether a purchase should be made.
- Continuous program loop for multiple transactions.

### **Planned Inputs and Outputs:**

#### **Inputs:**

- Current balance entered by user.
- Expense amounts entered by user.

- Item purchase details (cost and described benefits).
- User choice of action (calculate expenses or check purchase).

#### Outputs:

- Updated balance after expenses.
- Notification of remaining budget.
- Purchase advice (e.g., “You can afford this” / “This may exceed your budget”).

#### Logic Plan:

##### Start

Prompt user to enter current balance

##### Loop:

Display menu options:

- A. Calculate expenses
- B. Should I buy it?
- C. Exit

If user chooses A:

Ask for expense amount

Subtract from balance

Display updated balance

Else if user chooses B:

Ask for cost of item

Ask user to describe benefits

If cost  $\leq$  balance:

Print "You can buy it"

Else:

Print "You cannot afford it"

Else if user chooses C:

Exit program

EndIf

EndLoop

End