Assn 5 Flowchart - Flowchart

Main

- Start Main
- Assign Variables int numIncomes, bracket float income, tax
- Assign Value int x = 1 (Counter)
- Prompt for numIncomes
- Read & Store int for numIncomes
- Check for x <= numIncomes
  - False → End Loop → Print output thanking user → Return 0 → End Main
  - True → Prompt for income #x
- Read & Store float for income
- Assign Value x += 1
- Assign bracket = Tax_Bracket_Identification(income)
- Tax_Calculation(income, bracket, &tax)
- PrintAll(bracket, tax)

Bracket

- Start Tax_Bracket_Identification
- If income <= 10000
  - True → bracket = 1
  - False → If income <= 20000
    - True → bracket = 2
    - False → If income <= 30000
      - True → bracket = 3
      - False → If income <= 50000
        - True → bracket = 4
        - False → If income <= 100000
          - True → bracket = 5
          - False → If income > 100000
            - True → bracket = 6
- Return 0
- End Tax_Bracket_Identification

Structure

- Control Module 0000
  - Tax_Bracket_Identification 1000
  - Tax_Calculation 2000
  - PrintAll 3000

Print

- Start PrintAll
- Print output of tax bracket and tax owed
- End PrintAll

Tax

- Start Tax_Calculation
- Case bracket = 1 → tax = income * 0.05
- Case bracket = 2 → tax = 500 + ((income - 10000) * 0.10)
- Case bracket = 3 → tax = 1500 + ((income - 20000) * 0.15)
- Case bracket = 4 → tax = 3000 + ((income - 30000) * 0.20)
- Case bracket = 5 → tax = 7000 + ((income - 50000) * 0.25)
- Case bracket = 6 → tax = 19500 + ((income - 100000) * 0.30)
- End Tax_Calculation