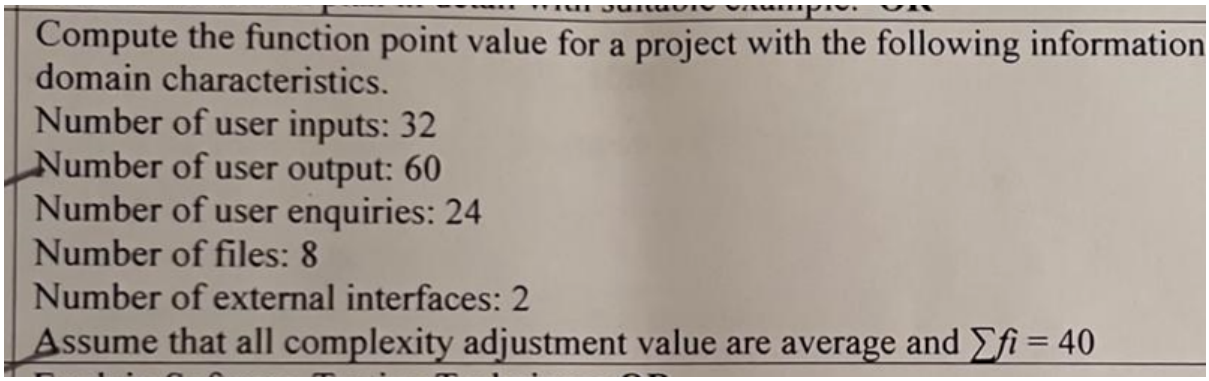
Function Point Calculation


Compute the function point value for a project with the following information domain characteristics.
Number of user inputs: 32
Number of user output: 60
Number of user enquiries: 24
Number of files: 8
Number of external interfaces: 2
Assume that all complexity adjustment value are average and $\sum fi = 40$

Step 1: Use standard FP weights (Average complexity)

For *average* complexity, the standard weights are:

Function Type	Weight
User Inputs (EI)	4
User Outputs (EO)	5
User Enquiries (EQ)	4
Files (ILF)	10
External Interfaces (EIF)	7

Given:

- Number of user inputs = 32
- Number of user outputs = 60
- Number of user enquiries = 24
- Number of files = 8
- Number of external interfaces = 2
- Sum of complexity adjustment factors = ΣFi = 40

Step 2: Compute Unadjusted Function Points (UFP)

$$UFP = (32 * 4) + (60 * 5) + (24 * 4) + (8 * 10) + (2 * 7)$$

Calculations:

- Inputs: `32 × 4 = 128`
- Outputs: `60 × 5 = 300`
- Enquiries: `24 × 4 = 96`
- Files: `8 × 10 = 80`
- External interfaces: `2 × 7 = 14`

$$UFP = 128 + 300 + 96 + 80 + 14 = 618$$

Step 3: Compute Value Adjustment Factor (VAF)

$$VAF = 0.65 + 0.01 * Fi$$

$$VAF = 0.65 + 0.01(40) = 0.65 + 0.40 = 1.05$$

Step 4: Compute Final Function Points (FP)

$$FP = UFP * VAFFP = 618 * 1.05 = 648.9 \approx 649$$

✅ Final Function Point Value = 649