

- o Given the following values, compute function point when all complexity adjustment factor (CAF) and weighting factors are average.

User Input = 50

User Output = 40

User Inquiries = 35

User Files = 6

External Interface = 4

Solution:

Step-1:

As complexity adjustment factor is average (given in question), hence, scale = 3.

$$F = 14 * 3 = 42$$

Step-2:

$$CAF = 0.65 + (0.01 * 42) = 1.07$$

Step-3:

As weighting factors are also average (given in question) hence we will multiply each individual function point to corresponding values in TABLE.

$$UFP = (50*4) + (40*5) + (35*4) + (6*10) + (4*7) = 628$$

Step-4:

$$\text{Function Point} = 628 * 1.07 = 671.96$$

This is the required answer.

o **Counting Function Point (FP):**

- **Step-1:**

$$F = 14 * \text{scale}$$

Scale varies from 0 to 5 according to character of Complexity Adjustment Factor (CAF). Below table shows scale:

0 - No Influence

1 - Incidental

2 - Moderate

3 - Average

4 - Significant

5 - Essential

- **Step-2:** Calculate Complexity Adjustment Factor (CAF).

$$CAF = 0.65 + (0.01 * F)$$

- **Step-3:** Calculate Unadjusted Function Point (UFP).

TABLE (Required)

FUNCTION UNITS	LOW	AVG	HIGH
EI	3	4	6
EO	4	5	7

FUNCTION UNITS	LOW	AVG	HIGH
EQ	3	4	6
ILF	7	10	15
EIF	5	7	10

Multiply each individual function point to corresponding values in TABLE.

- **Step-4:** Calculate Function Point.

$$FP = UFP * CAF$$

Measurement parameter	Count	Simple	Average	Complex	Count Total
Inputs	50	3	4	6	50*4 = 200
Outputs	40	4	5	7	40*5=200
inquiry	35	3	4	6	140
files	6	7	10	15	60
External interfaces	4	5	7	10	28
Total					= 628

$$FP = counttotal * \sum Fi$$

$$FP = counttotal \times CAF$$

$$FP = 628 * [0.65 + 0.01 \times (14 \times 3)]$$

$$FP = 628 \times 1.07 = 672$$