SE- Class Activity

# Problem no.1

Consider an application for booking the ride just like careem application having internal data 9, inputs 7, outputs 9, no. of inquiries 10 and external interface 8 with the weighting factor average. Calculate the functional points with Fi= 12 using the table given below.

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| **Weighting factor** |
| **Measurement Parameter Count Simple Average Complex** |
| **Number of user inputs 7 2 5 8** |
| **Number of user outputs 9 3 4 7** |
| **Number of user inquiries 10 4 6 9** |
| **Number of files 9 6 8 10** |
| **Number of external interface 8 5 7 8** |

**Calculation for Software Estimation**

Count \* Average  
 7\*5 = 35  
 9\*4 = 36  
 10\*6 = 60  
 9\*8 = 72  
 8\*7 = 56  
 Total = 259  
  
Functional Point = Total Count \* (0.65+0.01 \*Fi)  
 = 259 \* (0.65+0.01\*12)  
 = 199.43  
 = 200 Approximately

# Problem no.2

Compute the function point value for a project with the following information domain characteristics: Number of user inputs: 32

Number of user outputs: 60 Number of user inquiries: 24 Number of files: 8

Number of external interfaces: 2

Assume that all complexity adjustment values are average and complex weighting factor. Use the table given above for this problem

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| **Weighting factor** |
| **Measurement Parameter Count Simple Average Complex** |
| **Number of user inputs 32 2 5 8** |
| **Number of user outputs 64 3 4 7** |
| **Number of user inquiries 24 4 6 9** |
| **Number of files 8 6 8 10** |
| **Number of external interface 2 5 7 8** |

**Calculation for Software Estimation**

Count

32\*8 = 256

60\*7 = 420

24\*9 = 216

8\*10 = 80

2\*8 = 16

Total = 988

Functional Points = Total count \* (0.65 + 0.01 \* Fi)  
 = 988 \* (0.65 + 0.01 \* 42) = 1057.16

# Problem no.3

Calculate the functional point for software with no. of inputs 6, outputs 8, inquires 7, internal files 11 and external files 9 having the complex weighting factor. Consider the factor values for a software application.

# Factor Value

Backup and recovery 0 Data communications 5

Distributed processing 0

Performance critical 3

Existing operating environment 2 Online data entry 5

Input transaction over multiple screens 4 Master files updated online 3 Information domain values complex 2 Internal processing complex 4

Code designed for reuse 4 Conversion/installation in design 3 Multiple installations 4 Application designed for change 4

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| **Weighting factor** |
| **Measurement Parameter Count Simple Average Complex** |
| **Number of user inputs 6 2 5 8** |
| **Number of user outputs 8 3 4 7** |
| **Number of user inquiries 7 4 6 9** |
| **Number of files 11 6 8 10** |
| **Number of external interface 9 5 7 8** |

**Calculation for Software Estimation**

Count

6\*8= 48

8\*7 = 56

7\*9 = 63

11\*10 = 110

9\*8 =72

Total = 349

Functional points = total count \* (0.65 + 0.01 \* Fi)  
 = 349 \* (0.65 + 0.01 \* 43)  
 = 376.92