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    224CS3014
    SPPQM Assignment
    Assignment on function Points:-
Q1. Calculate Unadjusted Function Point (UPF)
                Complexity Adjustment factor (CAF)
                function Point (FP)
    Given: - Number of User Inputs = 32
              Number of User Outputs = 60
              Number of user inquiries=24
             Number of files = 81
             Number of external interfaces = 2
   formula: - UFP = E(number of elements of given type) x weight
              CAF = 0.65+(0.01+TDI)
              AP = (UFPXCAF)
  Wooking :- Average Weights:-
              User Input=4
              User output=5
              External user inquiries = 4
              Internal files = 10
              External interfaces=7
            VFP = (32X4 + 60X5 + 24X4 + 8X10 + 2X7)
                   128+300+96+80+14
            UFP = 618
   CAF: - TDI = Total degree of influence
                             3- mejori kanaha lan
                  = 42
          CAF = 0.65 + (0.01X42)
                = 0.65+0.42
```

function Point FP = UFPX CAF = 618X1-07 FP = 661.26

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Question No-02
                                              Average weights
  Solution: - No of user inputs = 024
                                               UD =4
             No. of user outputs = 0.26
                                                E0=5
             No. of user inquiries = 22
                                                EQ=4
              No of internal files = 4
                                                ILF=10
                                                EIF=7
              No. of external files = 2
         UFP = 24x4+16x5+22x4+4x10+2x7
                = 96+80+88+40+14
           UFP= 318
          CAF = \left[4,2,0,4,3,4,5,3,5,5,4,3,5,5\right]
           =) CAF = 0.65+ (0.01x Sum of Complexity AV)
                    = 0.65 + (0.01 \times 52)
                    =0.65+0.52
                [CAF = 1017
            FP = UFPXCAF
                = 318×1·17
             FP = 372.06
Question No-03
 Sol
     Given: - Number of user inputs = 24
              Number of user output = 46
              Number of user inquiries = 8
             Number of files = 4
              Number of external interfaces=2
     formula: - UFP = E (sum of elements of given type) x weight
     Working: - Weights: -
                  UI (average) = 4
                  FO (simple) = 4
                  EQ(complex)=6
```

f(awerage) = 10
f(Simple) = 5

$$VFP = 24x4 + 46x4 + 8x6 + 4x10 + 2x5$$

$$= 96 + 184 + 48440 + 10$$

$$VFP = 378$$

$$CAF = 0.65 + (0.01x Sum of Complexity Adjustment Values)$$

$$= 0.65 + (0.01x 43)$$

$$= 0.65 + 0.43$$

$$CAF = 0.65 + 0.43$$

Function Points
$$\Rightarrow$$
 FP = UFPXCAF
 \Rightarrow 378X1.08
 \Rightarrow FP = 408.24

Question No-04

Solution: - Given: - Number of External imputs = 04

Number of external output = 4

Number of external inquiries = 03

Number of files = 0

Number of logical files = 4

$$VFP = 3\times4+4\times4+3\times3+7\times0+5\times4$$

= 12+16+9+20
 $VFP = 57$

$$CAF = 0.65 + (0.01 \times TD1)$$

= 0.65 + (0.01 × 42)
 $CAF = 1.07$

Question No-05

solution: -

Given: - No. of user input = 22

No. of user output = 15

No. of user inquiries = 26

No. of files = 46

No. of external interfaces = 2

formula: - UFP = \(\Sigma\) (number of elements of given type) \(\chi\) weight

CAF = 0.65 (0.01+TDI)

FP = UFP \(\chi\) CAF

Working: - Average Weights:
#I=4

E0=5

EQ=4

ILF=10

EIF=7

UFP= 22x4+15x5+26x4+46x10+2x7 = 88+75+104+460+4 UFP= 741

CAF:- TDI = Sum of all CAV = 3+1+1+3+2+3+4+2+4+4+B+2+4+4 = 40

 $= CAF = 0.65 + (0.01 \times 40)$ = 0.65 + 0.4 CAF = 1.05

function Point FP= 1.05×741

[FP = 778.05]

tion No-06 solution !-

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Number of user imputs = 33
               E0=3
               EQ=0
               ILF=2
               EIF=0
Weights are simple:
 E1= 3
 E0=4
 EQ = 3
ILF=7
 E1F=5
UFP = 33x3 + 3x4 + 0x3 + 2x7 + 0x5
     = 99+12+0+14
      = 111+14
  JUFP=125
CAF = 0.65+ (0.01x7D1)
     = 0.65+ (0.01×17)
      0.6540.17
 CAF = 0.82
 function Points FP= 125x0.82
              FP = 102.5
```