```
Softwere Process Metrics
22MC40139
RAJATSINGIT
                   Digital Assignment
( Code
public des Armstrongton d'Fibonacci &
     Public static void main (String[] corps) {
          jet lower Bound = 1's
          14 upporband = 1000;
          System-out. prith ("Armstrong Numbus: \m");
          for (int num = lower Bound; num <= upper Bound; num ++) {
               if (is Armstrang Number (nom)) {
                    System. out-prith (nom + "");
            System . aut. pristln ("Fibonacci Numbers: \m");
             it prev=0, curv=1;
             while (corr <= upper Baund) {
                   if (curr ) = lower Bound) {
                       System. out. pristly (curr + " ");
                    ist neat = prev + curr;
                     prev = curr;
                     cur v = neat;
```

0000000000

3

9

9 93

```
public static boolean is Arm&trang Number (it num) {
      it n = num;
      ist dig t = string. value Of (nom) length ())
      it sum = 0;
      while (mom ) o) {
          124 dig = nom /10%
          Sum + = Math. pow (dig / digit.);
          num/=10%
       return som == n)
1) Linus Of Code (LOC)
LOC = non-commented source line + commented source line
     = NLOC + CLOC
        33 +0 = 33 lines
```

		415 532 V - 8 11 1		
Operators	Occurences	Operands Occurrences		
ix	3	1 + + 2/10/13 ! (T) = TEHOP/S + +=		
{}	8			
()	15	· /.		
,		3) Functional Payet = 1		
	12			
2		1 = = (23) years) lamentage		
\ = \ \=	2	fer 1		
+	3	vetorn 13 2) 217 3 ggs box at all		
	17	While (17) 2 agest bonnets		
lower Baund	3	upper Band 3		
num	1)	prev 3		
curr	7	next 2		
n	2 41= 1	Ligit 2		
Sum	3	for Tehnical Comfort yell		
(2-0)	Enter Haris	Technical Factors Way 115		
Vocabulary, n=n, xn2 = 29				
		Complexity of Algorithms 1		
$Size$, $N=N_1+N_2=117$				
" - 1 " E + 7				
Volume (V) = N/09 (n) = 117/09 (29) = 568,384				
		$=\frac{2}{19} \times \frac{10}{38} = 0.027$		
Difficulty (D) $\frac{2}{2} \times \frac{N_2}{n_2} = 75.05$				

Effort (E) =
$$\frac{V}{L} = \frac{568.38\%}{0.027} = 21051.2592$$

Faults $a = \frac{V}{5*} = \frac{568.38\%}{3000} = 6.189\%$

Tasking Time (T) = Effort/s = $\frac{21051.2592}{20}$
= 1052.56296

3) Functional Point

Esternal Query (EQ) = 0

Esternal Istarfare (EIF) = 0

Internal Logic Fills (ILI) = 0

Esternal Inputs (EI) = 2

Esternal Outputs (E0) = 2

UFC = 3EI + 4E0 + 3EQ + 7ILF + SEIF = 3x2 + 4x2 + 0 + 0 + 0 = 14

For Technical Complexity Factors,

Technical Factors	Weights	Scale Values (0-5)
Complexity of Algorithms	3	4
Revsability	3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Error Handling	(002/10/10)	(1) gills a (V) miles
Operational Ecse	. 01 1 = =	1 . 4 (1) lons
Documentation Turn Arand Time	1	Levi 5 - Callantia

$$TCF = (3x4) + (3x5) + (2x2) + (1x4) + (1x6)$$

$$+ (3x5) = 12 + 15 + 4 + 4 + 0 + 15$$

$$= 50$$

4 > Object Point $OP = FP \times LOC$ $= 16 \times 2S = 406$

Let us consider a database database application project with four screens and four views each and seven data tubles for three survers and four clieds. The application may generate two reports of six sections each from seven data tubles for two servers and three clients.

For Screens,

No- of Screens = 4

For each screen,

no of views = 4

/1 4 data tables = 7
11 11 Serves = 3
1 1 clists = 4

From the information above we consider the complexity of Beach on screen = Medium (3)

for Reports, No. of rewards = 2 t 4 sechus = 6 4 4 dola tables = 7 11 4 Servais = 2 9 9 climbs = 3 from the information above we consider the completely to be = Difficult (6) Object Pouls = Z[no. ob object of each interface] NOW, = 4x3 + 2x6 = 12 + 12 = 24There are 24 Object Points. may gonorde too reports of six sections cart from seven data tables for two sonvers and three clients Tox Scruss, No of severe = 4 in this is the contract of the state of the state of