## **Constructive Cost Model - Based on SLOC**

```
Let,

SLOC = 5000

Software Project Type = Organic

\therefore Effort (PM) = Coefficient_{effort factor} \times (SLOC / 1000)^{P}

= 2.4 × (5000 / 1000)<sup>1.05</sup>

= 13.005 \cong 13

\therefore Development Time (DM) = 2.5 \times PM^{T}

= 2.5 × 13<sup>0.38</sup>

= 6.626

\therefore Required number of People = ST = PM / DM

= 13 / 6.626

= 1.96 \cong 2
```

So, the Required Development time for our 6.626 months or almost 27 weeks and requires 2 people for the development of the project.

## **Timeline Chart**

Weeks	Pre game phase		Sprint 1			Sprint 2			Sprint 3		Sprint 4		Sprint 5		Sprint 6			Post Game Phase								
Task:	1	2	3	 5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Person																										
A: Andy																										
B: Andy																										
C: Andy																										
D: Andy																										
E: Charlie																										
F: Charlie																										
G: Andy																										
H: Andy																										
I: Charlie																										
J: Andy																										

## Activity Key:

A: Planning H: System Testing

B: Product Backlog Writing I: Integration Testing

C: High Level Design J: Documentation

D: Specify & Design Module

E: Code for Module

F: Test Module

G: Product Backlog Update

Group	Lab	Student Name	Assigned	Date	Due Date	Comment
#	Task#	and ID	Task	assigne		
				d		
4	4	Ahasan Habib	Timeline	1/8/202	1/13/2025	
		(22-48877-3)	Chart (	5		
			A,B,C,D)			
		Md. Sajib	SLOC -PM,	1/8/202	1/13/2025	
		Mondol (22-	Timeline	5		
		48824-3)	Chart (E,F)			
		Abul Bashar	SLOC -DM,	1/8/202	1/13/2025	
		Sourov	Timeline	5		
		(22-48823-3)	Chart (G,H)			
		Ujjoyeni Dey	SLOC – ST,	1/8/202	1/13/2025	
		(22-49001-3)	Timeline	5		
			Chart (I, J)			