Constructive Cost Model (Cocomo)

We can classify our software developer project into 3 category.

- Organic
- Semi detached
- Embedded

b 2	b 1		a 1	a 2
0.38	2.5	Organic	2.4	1.05
0.35	2.5	Semi detached	3.0	1.12
0.32	2.5	Embedded	3.6	1.20

For,

Organic Effort = $2.4(KLOC)^{1.05}$ PM

Semi detached= 3.0(KLOC) PM

Embedded = $3.6 (KLOC)^{1.20} PM$

Time of development:

Organic= b1(Effort)^{b2} Month

Semi detached= b1(Effort)^{b2} Month Embedded= b1(Effort)^{b2} Month

**Our Fire Fighter service is an organic type software product has been estimated to be almost 2,000 lines of source code. Our average salary of software engineers be 15,000/- per month.

Now, here we determine the effort required to develop the software product and the nominal development time.

Figure Effort =
$$2.4(KLOC)^{1.05}$$
 PM
= $2.4*(2)^{1.05}$ =5 PM

- > Nominal development time = $2.5*(5)^{0.38} = 5$ Months
- Cost required develop the product = 5*15000=75,000/=