

**Name:**            **Noman Siddique**

**Roll Number:**    **19P1664**

**Subject:**            **Software Design and Architecture**

**Lab task :**            **11**

**Instructor:**        **Usama Musharraf**

### **Size Metrics**

<b>NO Of Components</b>	<b>Components</b>	<b>NO OF OPERATIONS IN A COMPONENT</b>
1	Register/login	2
2	Appointment	4
3	Medical history	3
4	Medicine	2
5	Test	2
6	Bill	3

**No of component =6**

**No of Operation in system=16**

### **Cohesion Metrics**

<b>NO Of Components</b>	<b>Cohesion Metrix CM(C)</b>	<b>NO OF OPERATIONS IN A COMPONENT</b>	<b>COHF(c)= CM(C)*(i2-i)/ F^2-f</b>
1	3	2	0.389
2	1	4	0.0108
3	1	3	0.0259
4	1	2	0.0129
5	1	2	0.0129
6	2	3	0.0519

**cohF(sys) =0.0387**

### **Complexity Metrics**

NO Of Compone nts	Cohesi on Metrix CM(C)	NO OF OPERATIO NS IN A COMPON ENT	COHF(c) = CM(C)*( i <sup>2</sup> -i)/ F <sup>2</sup> -f	TC M	Complexi ty factor	TCM(S ys)
1	3	2	0.389	5.66 6	0.389/2.333 =0.0166	5.5826
2	1	4	0.0108	19	0.0108/0.7 =0.0154	19.0154
3	1	3	0.0259	18	0.0259/1.16 66= 0.0222	18.022
4	1	2	0.0129	17	0.0129/2.33 3 =0.0055	17.0055
5	1	2	0.0129	17	0.0129/2.33 3 =0.0055	17.0055
6	2	3	0.0519	9	0.0519/1.16 66 =0.044	9.044

**TCM(SYS)=85.675**

**Total Coupling =14**