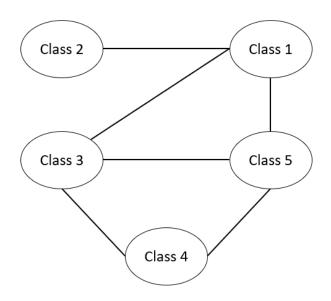
Problem 6.1 (Scheduling CS Classes as a CSP):

1. Formulate this problem as a binary CSP problem:

```
Variable, V = \{ \text{Class 1}, \text{Class 2}, \text{Class 3}, \text{Class 4}, \text{Class 5} \}
Domain, D = \text{Class 1} \in \{ \text{Professor A} \}
```

Constraint, C: { (Class
$$2 \neq \text{Class } 1$$
), (Class $1 \neq \text{Class } 3$), (Class $1 \neq \text{Class } 5$), (Class $3 \neq \text{Class } 5$), (Class $3 \neq \text{Class } 5$))}

Constraint Graph:



- 2. Class 1= {Professor A}
 - Class 2= {Professor C}
 - Class 3= {Professor A, Professor B}
 - Class 4= {Professor A, Professor B, Professor C}
 - Class 5= {Professor A, Professor C}
- 3. Class 1= {Professor A}
 - Class 2= {Professor C}
 - Class 3= {Professor B}
 - Class 4= {Professor C}
 - Class 5= {Professor A}