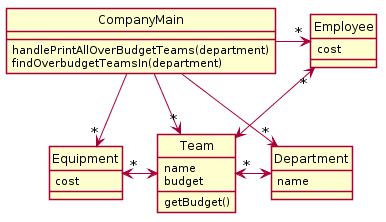
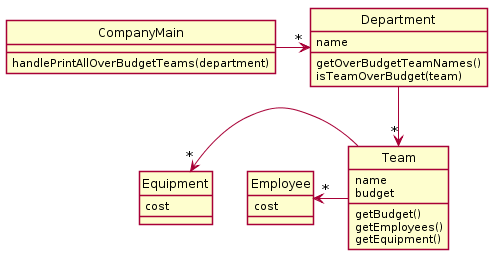
**DP4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CM: \_\_\_\_\_\_\_**

***Team Budget:*** At a particular company, departments are composed of named teams and each team has a yearly budget. Teams have both employees and equipment, each of which have a yearly cost. A team is over budget if the total yearly cost of all employees and equipment is greater than the team's budget. It should be possible to get a list of all teams within a department that are over budget.

**Solution A**

[](http://www.plantuml.com/plantuml/img/ROzD2i8m48NtESNGLIju0n7yMxWGNNY1s8mQJAQrIOKYtjqa_KkXcs5utyoyD-ObgUGLrs1iez3LIkQsregnN75ZO5VeabDpufBWom2Ud8J2IoN9RfGwVx3QrkA1zefScrIWEsOraitONPBm_3Ro8qqc07wTotvGWmbnZQndVdDK0Tfxhd6rzKupDznD7tIfYWOnREI5iH5wrx8SF7eMFxXSGx98eZHJsc4VQ6vjk3yBkrmilEELbIEHqvYkXy5d-2TM_m00)

**Solution B**

[****](http://www.plantuml.com/plantuml/img/LP1D3i8W48Ntd89qHKrw0sFYtzAVXHV0Tg94e0XJayPuTu62nGratdlpCODx26suvOew72NuqueM1oK9QILtZcvxPRWU3rne-YQKthdk99ojqBYMylG2kncw6-05k7Ai0mz31Hfhd_qankwdHeJc2lpbc_xRZrvtB3GA5-hPPUZBccHUC4lIDOOcP6gefsglZEn7IDWWF0TXmYGiu18lfoApxHqMLix_UUMdD2jQBQfYHrAisoGtJ4ncLjIMJPBpwuL8wHS0)

Explain the problems with each Solution provided above (and give the number of the OO Principles violated)

***Problems With A***

* OO Design Principle(s) violated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Your explanation:

***Problems With B***

* OO Design Principle(s) violated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Your explanation:

***Your Solution***

* Include UML diagram and an explanation of how it functions