

Names: Alexander Sembrat and Matthew Ho

Course Name: Principles of Software Design

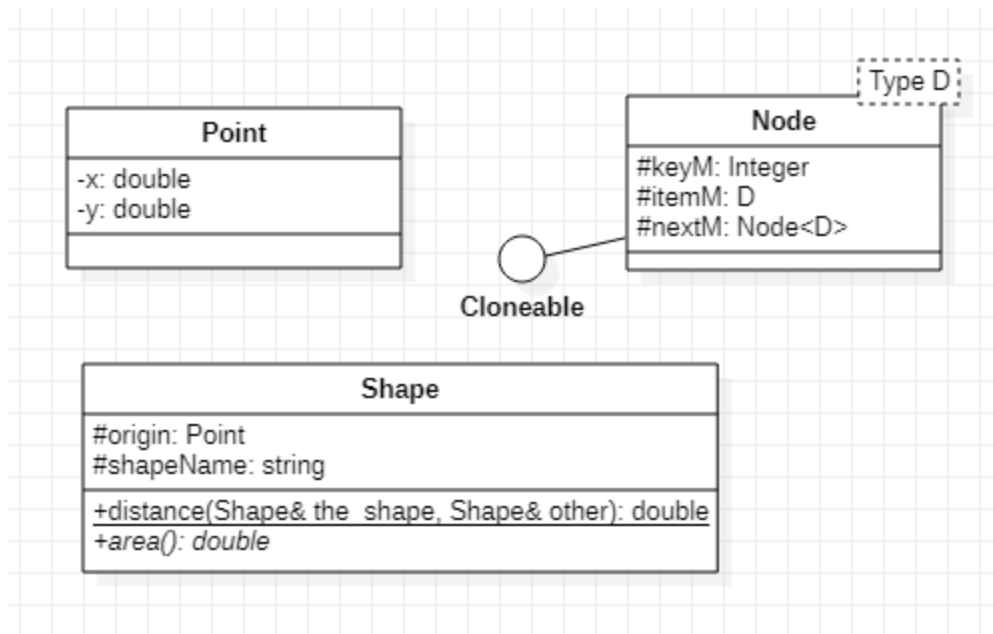
Lab Section: B01

Course Code: ENSF 480

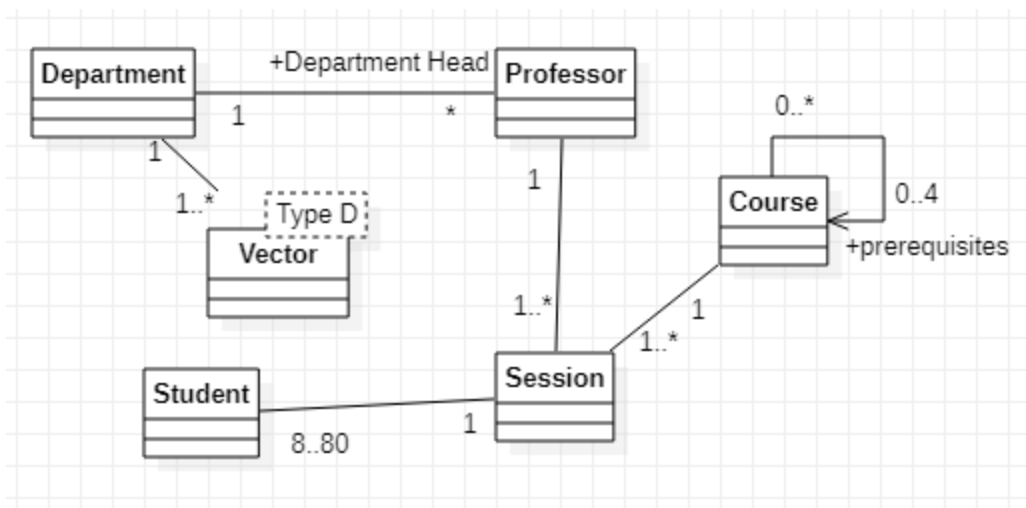
Assignment Number: Lab 4

Submission Date and Time: Oct 22st

Exercise A:



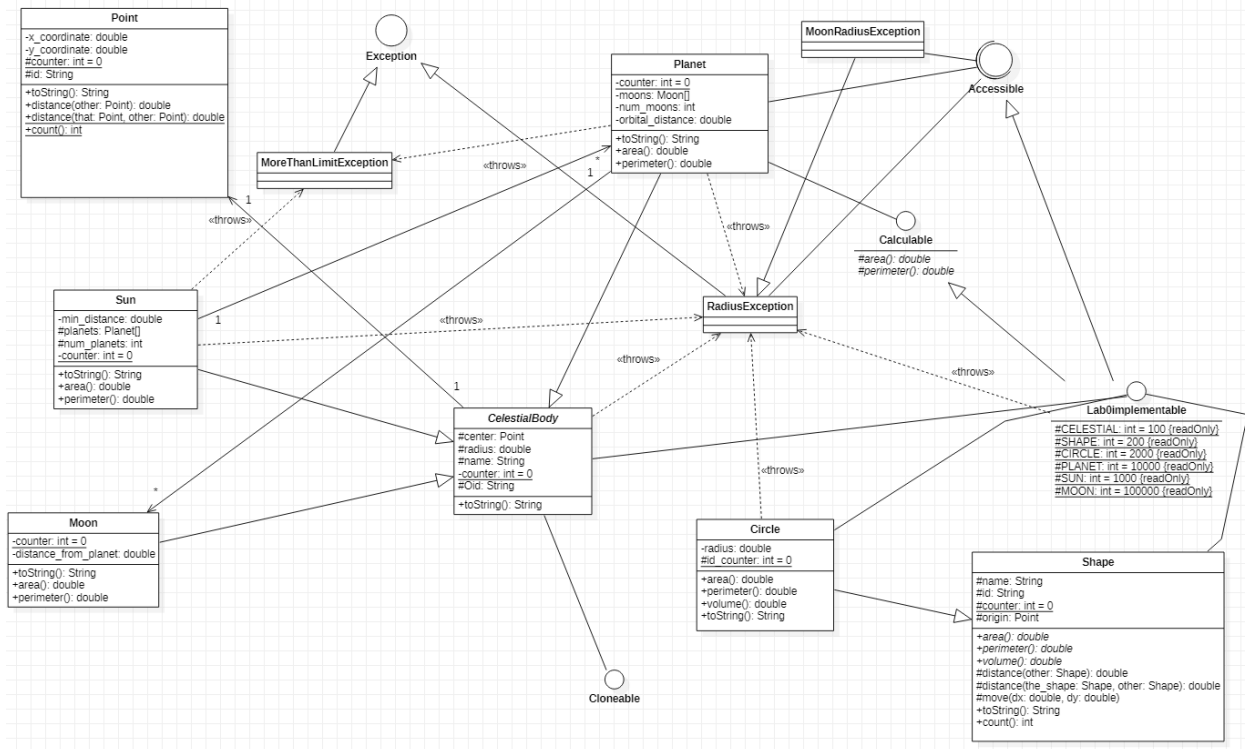
Exercise B:



Exercise C:

```
2  class Car final: public Vehicle{
3
4  public:
5      void turn();
6  private:
7      int seats;
8  }
9
10 class Vehicle : public Moveable, public Resizeable{
11
12 public:
13     Vehicle(string name);
14     void move();
15 protected:
16     string name;
17 }
18
19 class Moveable{
20
21 public:
22     virtual void forward() = 0; //a virtual function = 0 makes a class into a interface
23     virtual void backward();
24
25 }
26
27 class Resizeable{
28
29 public:
30     virtual void enlarge(int n) = 0; //a virtual function = 0 makes a class into a interface
31     virtual void shrink(int n);
32 }
```

Exercise D:



Exercise E:

