

Write the **Course** and **Student** class with the required methods to give the following outputs. Some requirements to follow:

1. All the instance variables of the **Student** class should be **public**
2. All the instance variables of the **Course** class should be **private**
3.  $GPA = \text{Sum of (Grade Points * Credits)} / \text{Credits attempted}$

**# Write your code here**

**# Do not change the following lines of code.**

```
c1 = Course("CSE110", 3)
c2 = Course("CSE111", 3)
c3 = Course("CSE400", 3)
c4 = Course("CSE421", 3)
print("1*****")
c3.setCredit(4)
s1 = Student("Alif")
s2 = Student("Sehrin")
print("2*****")
s1.addGP(c1, 4.0)
s1.addGP(c2, 3.7)
s1.addGP(c3, 4.0)
print("3*****")
print(f'{s1.name}'s GPA for this semester is {s1.gpa()})"
print("4*****")
s2.addGP(c4, 4.0)
s2.addGP(c2, 3.3)
s2.addGP(c3, 3.7)
print("5*****")
print(f'{s2.name}'s GPA for this semester is {s2.gpa()})"
print("6*****")
```

1\*\*\*\*\*

Credit successfully updated

2\*\*\*\*\*

Hello Alif, your grade for the CSE110 course is added

Hello Alif, your grade for the CSE111 course is added

Hello Alif, your grade for the CSE400 course is added

3\*\*\*\*\*

Alif's GPA for this semester is 3.91

4\*\*\*\*\*

Hello Sehrin, your grade for the CSE421 course is added

Hello Sehrin, your grade for the CSE111 course is added

Hello Sehrin, your grade for the CSE400 course is added

5\*\*\*\*\*

Sehrin's GPA for this semester is 3.67

6\*\*\*\*\*