**CT-2**

**Exam Time : 50 minutes, upload Time : 5 minutes, Marks : 20**

Every member of UIU family either a student or a teacher has a unique ID. Create a general UIUPeople class for each member of UIU family, which stores two attributes, ID and name. You can add additional methods or constructors if you want.

Students have some additional information, like CGPA. Create class for student. You can add additional methods or constructors if you want.

Say we are choosing TAs for the next trimester. Students whose CGPA is above 3.80 will be selected as TAs. Monthly salary of a TA is 8,000 per course. Create a class for TA. In the class, create a method that will calculate salary of a TA based on number of courses assigned. You can add additional methods or constructors if you want.

In the main class, create several student objects [use object array]. And then select as TA those students whose CGPA is above 3.80, i.e. you should create corresponding TA objects. Assign a number of courses to each TA and then display their corresponding salaries.

[**Use inheritance, array of objects, class and objects.]**

**Sample inputs :**

**Enter ID :**

1

**Enter name :**

farah

**Enter cgpa :**

3.99

**enter no of courses :**

2

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**Enter ID :**

2

**Enter name :**

mishkat

**Enter cgpa :**

3.76

**Enter ID :**

3

**Enter name :**

shakal

**Enter cgpa :**

3.67

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**Enter ID :**

4

**Enter name :**

kamal

**Enter cgpa :**

3.81

**enter no of courses :**

3

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**Enter ID :**

5

**Enter name :**

jamal

**Enter cgpa :**

3.5

**Sample Output :**

Name : ID : 1 cgpa : 3.99 salary : 16000

Name : ID : 4 cgpa : 3.81 salary : 24000