```python
1  #Mid Summer2021 CSE111
2  #Md Danial Islam
3  #20101534
4  #Sec: 01
5  #Question_1
6
7  courses = ['CSE110','CSE111','MAT620','CSE520','EEE361','CSE650','MAT510']
8  courses = sorted(courses)
9
10 course_dict = {}
11
12 for item in courses:
13   key = item[:-3]
14   code = item[-3:]
15   if key not in course_dict:
16     course_dict[key] = {"Undergraduate":[],"Graduate":[]}
17     if int(code) < 500:
18       course_dict[key]['Undergraduate'].append(item)
19     else:
20       course_dict[key]['Graduate'].append(item)
21   else:
22     if int(code) < 500:
23       course_dict[key]['Undergraduate'].append(item)
24     else:
25       course_dict[key]['Graduate'].append(item)
26
27 print(course_dict)
```

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```python
1  #Mid Summer2021 CSE111
2  #Md Danial Islam
3  #20101534
4  #Sec: 01
5  #Question_2
6
7  class Advising:
8    def __init__(self,*info):
9      self.advisor = ''
10     self.student = ''
11     self.courses = {'only_course':[]}
12     size = len(info)
13     if size == 2:
14       self.student = info[0]
15       self.id = info[1]
16     elif size == 3:
17       self.student = info[0]
18       self.id = info[1]
19       self.advisor = info[2]
20   def advisor(self,name):
21     self.advisor = name
22   def add_course(self,course_name,day):
23     if self.advisor == '':
24       print('Advisor not assigned. Assign advisor name first')
25     else :
26       self.courses['only_course'].append(course_name)
27       if day not in self.courses.keys():
28         self.courses[day] = []
29         self.courses[day].append(course_name)
30       else:
31         self.courses[day].append(course_name)
32   def showDetails(self):
33     print('Student Name: {}\nAdvisor Name: {}'.format(self.student,self.advisor))
34     # courses = []
35     # for i in self.courses.values():
36     #    for j in i:
37     #      courses.append(j)
38     # if len(courses) == 0:
39     #    print("No courses advised yet")
40     # else:
41     #    print('Courses of {} - -'.format(self.id))
42     #    for item in courses:
43     #      print(item)
44     if len(self.courses) == 1:
45       print("No courses advised yet")
46     else:
47       print('Courses of {} - -'.format(self.id))
48       for item in self.courses['only_course']: #to make the print look familiar
49         print(item)
50   def show_exams(self):
51     if (len(self.courses)==1):
52       print('No courses advised yet')
53     else:
54       print("Exams of {} - -".format(self.id))
55       for key,val in self.courses.items():
56         if key == 'only_course': # to not show the only_course
57           continue
58         else:
59           print(key,val)
60
61
62
63
64  adv1 = Advising('Michael Scott',16100000)
65  print("===============================")
```

```
66 adv1.add_course('Office Management','Day1')
67 print("=================================")
68 adv1.advisor = 'David Wallace'
69 adv1.add_course('Office Management','Day1')
70 adv1.add_course('Employee Management','Day2')
71 adv1.add_course('Intro to Best Boss','Day1')
72 adv1.showDetails()
73 print("=================================")
74 adv1.show_exams()
75 print("###################################")
76 adv2 = Advising('Dwight Schrute',17100000,'Michael Scott')
77 adv2.showDetails()
78 print("=================================")
79 adv2.show_exams()
80 print("=================================")
81 adv2.add_course('How to be Regional Manager','Day1')
82 adv2.add_course('Farming','Day1')
83 adv2.showDetails()
84 print("=================================")
85 adv2.show_exams()
86 print("=================================")
```

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