

Inbox x

5:34 PM (1 hour ago) ☆ ↩ ⋮

cse111@bracu.ac.bd

Dear MD. BOKHTIAR RAHMAN JUBORAZ,

Following is the link to submit your midterm exam:

<https://forms.gle/zaC7fnaEztSuJm7p7>

PLEASE NOTE THAT YOU CAN UPLOAD ONLY ONE PDF FILE

Your exam started at Fri Nov 20 2020 17:34:47 GMT+0600 (Bangladesh Standard Time) you have 80 minutes to submit this exam.

**NO SUBMISSIONS WILL BE ACCEPTED AFTER
7:00 PM REGARDLESS OF WHEN YOU STARTED YOUR EXAM**

Regards
CSE111 team

Following is your exam question

CSE111: Programming Language II
Midterm exam
Semester: Fall 2020
Time: 1 hour 20 Minutes
Total Marks: 20

Instruction:

1. Answer all the Questions.
2. You must submit your file in PDF format.
3. Rename your file as Name_ID_section.pdf.
4. Understanding the question is a part of the exam. Don't ask anything regarding the questions.
5. For any technical issues visit: <https://meet.google.com/mjp-gtfc-qid>

Question 1:

Valorant is a first-person shooting(FPS) game where there will be several heroes each with some special role(Initiator, Controller, Sentinel, Duelist) to play in the game and you with 4 of your friends have to pick any 5 heroes to play a match as a team. Now assume you will be playing a match in Valorant but you and your friends need to pick a perfect team of 5 heroes based on their roles. Perfect team consists of 2 duellists, 1 controller, 1 initiator and 1 sentinel. First, create a dictionary of all heroes with the names of the heroes as the Key and their role as the value of the corresponding key. The code for creating the dictionary is given below.

```
#given dictionary
```

```
dict= { 'Breach': 'Initiator', 'Brim': 'Controller', 'Cypher': 'Sentinel',
        'Jett': 'Duelist', 'Omen': 'Controller', 'Phoenix': 'Duelist', 'Raze':
        'Duelist', 'Reyna': 'Duelist', 'Sage': 'Sentinel', 'Sova': 'Initiator',
        'Skye': 'Initiator', 'Killjoy': 'Sentinel' }
```

Now you will be given a list of 7 heroes as input and you have to determine whether you can create a perfect team of 5 heroes from the input hero list. If yes, print "We have a perfect team. Let's win this game." Otherwise, print "We don't have a perfect team. It will be hard to win this match."

Sample input 1:

Brim Omen Breach Jett Killjoy Skye Reyna

Sample output 1:

We have a perfect team. Let's win this game.

Sample input 2:

Omen Jett Phoenix Reyna Sage Cypher Brim

Sample output 2:

We don't have a perfect team. It will be hard to win this match.

Question 2:

Design a Student class so that the following output is produced upon executing the following code:

[Hint: Each course has 3.0 credit hours. You must take at least 9.0 and at most 12.0 credit hours.]

Code:

```
s1 = Student("Alice","20103012","CSE")
s2 = Student("Bob","18301254","EEE")
s3 = Student("Carol","17101238","CSE")
print("#####")
print(s1.details())
print("#####")
print(s2.details())
print("#####")
s1.advise("CSE110","MAT110","PHY111")
print("#####")
s2.advise("BUS101","MAT120")
print("#####")
s3.advise("MAT110","PHY111","ENG102","CSE111","CSE230")
```

Output

```
#####
Name: Alice
ID: 20103012
Department: CSE
#####
Name: Bob
ID: 18301254
Department: EEE
#####
Alice, you have taken 9.0 credits.
List of courses: CSE110, MAT110, PHY111
Status: Ok
#####
Bob, you have taken 6.0 credits.
List of courses: BUS101, MAT120
Status: You have to take at least 1 more course.
#####
Carol, you have taken 15.0 credits.
List of courses: MAT110, PHY111, ENG102, CSE111, CSE230
Status: You have to drop at least 1 course.
```

-----END OF QUESTION-----

↩ Reply

➡ Forward