```
1 #Task 1
 2 user input = input()
 3 num = int(input())
 4 dic = {}
 5 for i in range(len(user input)):
   word = user input[i:i+num]
    if (word in dic):
 7
 8
      dic[word]+=1
 9 else:
     dic[word] = 1
10
    if (i == (len(user input) - num)):
11
12
      break
13 highest = [0,0]
14 count = 0
15 for k,v in dic.items():
16 print(k,v)
17
    if (v > highest[1]):
     highest = [k,v]
18
    elif (v == highest[1]):
19
20
    count+=1
21 if (count>=2):
    print("No highest substring found.")
23 else:
    print("Highest substring: {}".format(highest[0]))
24
25
26
 1 #Task 2
 2 class Player:
 3 total players = 0
    players_dict = {}
    player details = 'No players available'
 5
 6
 7
    @classmethod
 8
    def update player(cls):
 9
     cls.total_players +=1
10
    @classmethod
11
    def add_player(cls,id,name,club,position, year):
       cls.players dict[id] = [name,club,position,year]
12
       cls.player_details = cls.players_dict
13
    @classmethod
14
    def create player(cls,name,club,position, year='Unknown'):
15
      return cls(name,club,position,year)
16
17
    def __init__(self,name,club,position, year='Unknown'):
18
      Player.update player()
19
       self.no = Player.total_players
20
       self.name = name
21
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self.club = club
22
23
     self.position = position
     self.year = year
24
     self.id = '{}_{}'.format(self.no,self.year,self.name.split()[-1])
25
     Player.add player(self.id,self.name,self.club,self.position,self.year)
26
27
    def cheer player(self):
     print("Let's cheer for {} who is a pride of {}".format(self.name,self.cl
28
29
    def str (self):
30
     returnable = "Player Details\nPlayer No: {}\nID: {}\nName: {}\nClub: {}\
31
32
     return returnable
33 #Write your code here
34 print(Player.player details)
35 print("1.##############"")
36 ronaldo = Player("Ronaldo", "Man United", "Forward", "2021")
37 ronaldo.cheer player()
38 print("2.----")
39 messi = Player("Lionel Andrés Messi", "Barcelona", "Forward")
40 messi.cheer_player()
41 print("3.----")
42 ramos = Player.create player("Sergio Ramos", "PSG", "Defender", "2021")
43 ramos.cheer player()
44 print("4.========"")
45 print(ronaldo)
46 print("5.========="")
47 print(messi)
48 print("6.======="")
49 print(ramos)
50 print("7.################")
51 print(Player.player details)
1 #Task 3
 2 class Game:
 3
   agentCount=0
   def __init__(self,name,gameType):
 5
     self.name = name
     self.gameType = gameType
6
   def formTeam(self):
7
     if Game.agentCount >= 5:
8
9
       return True
10
     else:
       return False
11
  def __str__(self):
12
     s = f"{self.name} is an {self.gameType} game.\n"
13
     s+= f"Number of agents in {self.name} is {Game.agentCount}\n"
14
     return s
15
16 #Write down your code here.
17 class Valorant(Game):
    def init__(self,name,gameType):
```

65 print("8.======="")

64 print(v)

66 v.formTeam()

✓ 8s completed at 4:39 PM