Implement the Doctor and Patient class so that the following output is

produced.

| d1 = Doctor("M.A. Mannaf", "Eye Specialist", 1500)  d2 = Doctor("Nurul Islam", "Kidney Specialist", 2500)  print("==============================")  p1 = Patient("Bob", "Eye", 36)  p2 = Patient("Carol", "Kidney", 58)  p3 = Patient("David", "Eye", 25)  p4 = Patient("Simon", "Eye", 19)  print("==============================")  d1.addPatient(p1)  print("==============================")  d1.addPatient(p2)  print("==============================")  d2.addPatient(p2)  print("==============================")  d1.addPatient(p3, p4)  print("==============================")  d1.showAllPatient()  print("==============================")  d1.servePatient()  print("==============================")  d1.showAllPatient()  print("==============================")  d2.showAllPatient()  print("==============================")  Doctor.showAllInfo() | Output:  =================================  Bob is facing Eye problem  Carol is facing Kidney problem  David is facing Eye problem  Simon is facing Eye problem  =================================  Bob added for Eye treatment  =================================  Sorry, Carol doesn’t have problem in Eye. Please consult a kidney specialist  =================================  Carol added for Kidney Treatment  =================================  David added for Eye treatment  Simon added for Eye treatment  =================================  1. Name: Bob Age: 36  2. Name: David Age: 25  3. Name: Simon Age: 19  =================================  Bob has been treated.  =================================  1. Name: David Age: 25  2. Name: Simon Age: 19  =================================  1. Name: Carol Age: 58  =================================  Total Eye Patient: 3  Total Kidney Patient: 1 |
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Design CSEStudent class and BBAStudent class which inherit from Student

class so that the following code provides the expected output.

[Assume, per course tuition fee is 19800. The addCourses() method in both

child classes should work for any number of parameters and any type of

courses ]

| class Student:  def \_\_init\_\_(self, name, department):  [self.name](http://self.name/) = name  self.department = department  def \_\_str\_\_(self):  s = f"Name: {[self.name](http://self.name/)}\nDepartment: {self.department}"  return s  # Write your codes here.  # Do not change the following lines of code.  s1 = CSEStudent("Bob", "CSE", 21101018)  s1.addCourses("CSE111","CSE230","CSE260","MAT120","CSE320")  print('====================================')  s1.showPaymentDetails()  print('====================================')  print(s1)  print('====================================')  s2 = BBAStudent("Carol", "BBA", 21104007)  s2.addCourses("BUS101", "MKT201", "MGT423", "BUS201")  print('====================================')  s2.showPaymentDetails()  print('====================================')  print(s2) | OUTPUT:  ================================  Bob, your tuition fee is 99000  ================================  Name: Bob  Department: CSE  ID: 21101018  Course Details:  100 Level: ['CSE111', 'MAT120']  200 Level: ['CSE230', 'CSE260']  300 Level: ['CSE320']  ================================  ================================  Carol, your tuition fee is 79200  ================================  Name: Carol  Department: BBA  ID: 21104007  Course Details:  100 Level: ['BUS101']  200 Level: ['MKT201', 'BUS201']  400 Level: ['MGT423'] |
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| cart1 = Foodcart()  food1 = Food('Burger','Chillox',180)  food2 = Food.createFood('Cake','Mr. Baker',1000)  print("===========================")  print(food1)  print("===========================")  cart1.addFood(food1,food2)  print("===========================")  cart1.setCartName("Foodpanda")  cart1.addFood(food1,food2)  cart1.addFood(Food('Steak','Woodhouse Grill',2000))  print("Total Price Available:",Foodcart.totalPrice)  print("===========================")  print("Total Foods created:",Food.totalFoods)  print("===========================")  cart1.printCartDetails()  print("===========================")  cart1.removeFood("French Fry")  print("===========================")  cart1.removeFood("Steak")  print("===========================")  cart1.printCartDetails()  print("===========================")  print("Total Price Available:",Foodcart.totalPrice) | Output:  ====================================  Food Info : Burger, Food Shop : Chillox, Food Price : 180  ====================================  Please set the cart name first.  ====================================  Total Price Available: 3180  ====================================  Total Foods created: 3  ====================================  Details of Foodpanda:  Total Items: 3  Food Info : Burger, Food Shop : Chillox, Food Price : 180  Food Info : Cake, Food Shop : Mr.Baker, Food Price : 1000  Food Info : Steak, Food Shop : Woodhouse Grill, Food Price : 2000  ====================================  French Fry not found!  ====================================  Steak removed from cart!  ====================================  Details of Foodpanda:  Total Items: 2  Food Info : Burger, Food Shop : Chillox, Food Price : 180  Food Info : Cake, Food Shop : Mr.Baker, Food Price : 1000  ====================================  Total balance of Bank: 1180 |
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| class CricketTeam:  def \_\_init\_\_(self, name, ranking, continent):  [self.name](http://self.name/) = name  self.ranking = ranking  self.continent = continent  def add\_player(self, \*info):  pass  def \_\_str\_\_(self):  s = f"Name: {[self.name](http://self.name/)}\nRanking: {self.ranking}\nContinent:  {self.continent}"  return s  # Write your codes here.  # Do not change the following lines of code.  bangladesh = BDTeam("Bangladesh", 7, "South Asia", 1)  bangladesh.add\_player("Mustafiz", "Bowler", "Mashrafee", "Bowler", "Shakib", "All  Rounder", "Tamim", "Batter", "Mahmudullah", "Batter")  print('1.------------------------------------')  print(bangladesh.asia\_cup\_status())  print('2.------------------------------------')  print(bangladesh)  print('3.====================================')  australia = AusTeam("Australia", 3, "Oceania", 5)  australia.add\_player("Batter", "Smith", "All  Rounder", "Marsh", "Batter", "David", "Bowler", "Starc", "Bowler", "Hazlewood")  print('4.------------------------------------')  print(australia.world\_cup\_status())  print('5.------------------------------------')  print(australia) | OUTPUT:  1.------------------------------------  Hurray!!! Bangladesh has won 1 Asia Cups!!!  2.------------------------------------  Country Details:  Name: Bangladesh  Ranking: 7  Continent: South Asia  Asia Cup Win:1  Players:  Bowler: ['Mustafiz', 'Mashrafee']  All Rounder: ['Shakib']  Batter: ['Tamim', 'Mahmudullah']  3.====================================  4.------------------------------------  Hurray!!! Australia has won 5 World Cups!!!  5.------------------------------------  Country Details:  Name: Australia  Ranking: 3  Continent: Oceania  World Cup Win:5  Players:  Batter: ['Smith', 'David']  All Rounder: ['Marsh']  Bowler: ['Starc', 'Hazlewood'] |
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