```
C: Vsers HAFIZ COMPUTER Desktop HASNAIN OOP lab5 lab5 q1.py
      🚜 lab5 q1.py × 🚜 lab5 q2.py
                 def __init__(self,width = 4 height = 5):
                      print("The area of given rectangle is : "_(self.width * self.height))
           C:\Program Files\Python310\python.exe" "C:/Users/HAFIZ COMPUTER/Desktop/HASNAIN/OOP/lab5/lab5 q1.py"
           The area of given rectangle is : 20
   ٦
           Process finished with exit code \theta
  🔭 👸 lab5 q1.py 🗡 🏻 👸 lab5 q2.py
                   print("The area of given rectangle is : " (self.width * self.height))
          ⇒class Square(Rectangle):
           s<u>=</u> Square(4,4)
     🌼 main 🗴 🛛 🔮 lab5 q2 :
Run:
        "C:\Program Files\Python310\python.exe" "C:/Users/HAFIZ COMPUTER/Desktop/HASNAIN/00P/lab5/lab5 q2.py"
        The area of given rectangle is : 16
    \red{6} lab5 q1.py 	imes \red{6} lab5 q2.py 	imes \red{6} lab5 q3.py 	imes
           dclass Person:
                def __init__(self_name_age):
                def Printdetails(self):
            class Student(Person):
                def __init__(self_name_age_student_id_roll_no):
    super().__init__(name_age)
                def Printdetails(self):
           class Resident(Student):
                def __init__(self_name_age_student_id_roll_no_house_no):
    super().__init__(name_age_student_id_roll_no)
                     self.house_no = house_no
                def Printdetails(self):
                     super().Printdetails()
           Hasnain = Resident("Muhammad Ali Hasnain",19,"cs-21068",68,681)
        Your name is : Muhammad Ali Hasnain
        Your Student id is : cs-21068
```

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🛵 lab5 q1.py
                   🛵 lab5 q2.py ×
                                 [ 🛵 lab5 q3.py
                                               🛵 lab5 q4.py
            class Hospital:
                def __init__(self,name,address):
                     self.address = address
            class Doctor(Hospital):
                 def __init__(self,name,address,specialization):
                     super().__init__(name,address)
                     self.specialization = specialization
            class Patient(Hospital):
                 def __init__(self_name_address_disease_doctor):
                     super().__init__(name,address)
                     self.disease = disease
                     self.doctor = doctor
             class Medical_test(Patient):
                 def __init__(self_name_address_disease_doctor_testno):
                     super().__init__(name,address,disease,doctor)
                     self.testno = testno
                     self.test_status = "uninitialized"
                 def DisplayReport(self):
                     print(f"The name of patient is : {self.name}")
                     print(f"The address of patient is : {self.address}")
— 🏻 🐔 lab5 q1.ру 🗡
                🐉 lab5 q2.py × 🚜 lab5 q3.py × 🐉 lab5 q4.py >
              def DisplayReport(self):
                  print(f"The address of patient is : {self.address}")
                  print(f"The test status of patient is : {self.test_status}")
                  if(self.test_status == "uninitialized"):
          Abbas = Medical_test("Abbas Raza", "survey 417", "Cancer", "Dr. Aun Raza ", "2nd")
          Abbas.DisplayReport()
Run: 🌳 main 🗴 🏺 lab5 q4 🔾
       "C:\Program Files\Python310\python.exe" "C:/Users/HAFIZ COMPUTER/Desktop/HASNAIN/00P/lab5/lab5 q4.py"
       The name of patient is : Abbas Raza
عو
       The address of patient is : survey 417
       The disease of patient is : Cancer
   The doctor of patient is : Dr. Aun Raza
==
```

The test no. of patient is : 2nd

The test is starting soon!!!

The test status of patient is : uninitialized