

lab2 > q1.py

Project

- lab2 C:\Users\HAFIZ COMPUTER\Desktop\HASNAIN\OOP
- main.py
- q1.py
- External Libraries
- Scratches and Consoles

```
1 class Student:
2     def __init__(self):
3         print("An empty student object is created!")
4
5 A = Student()
6 B = Student()
7 C = Student()
8
```

Run: q1

```
"C:\Program Files\Python310\python.exe" "C:/Users/HAFIZ COMPUTER/Desktop/HASNAIN/OOP/lab2/q1.py"
An empty student object is created!
An empty student object is created!
An empty student object is created!
Process finished with exit code 0
```

lab2 > q2.py

Project

- lab2 C:\Users\HAFIZ COMPUTER\Desktop\HASNAIN\OOP
- main.py
- q1.PNG
- q1.py
- q2.py
- External Libraries
- Scratches and Consoles

```
1 class Student:
2     def __init__(self, name, batch, year):
3         self.name = name
4         self.batch = batch
5         self.year = year
6
7 A = Student("ALI HASNAIN", "2021", "2022")
8 B = Student("ABBAS RAZA", "2021", "2022")
9 C = Student("JARI NAQVI", "2018", "2022")
10 print(A.name)
11 print(B.batch)
12 print(C.year)
```

Run: q2

```
"C:\Program Files\Python310\python.exe" "C:/Users/HAFIZ COMPUTER/Desktop/HASNAIN/OOP/lab2/q2.py"
ALI HASNAIN
2021
2022
Process finished with exit code 0
```

lab2 > q3.py

Project

- lab2 C:\Users\HAFIZ COMPUTER\Desktop\HASNAIN\OOP
- main.py
- q1.PNG
- q1.py
- q2.PNG
- q2.py
- q3.py
- External Libraries
- Scratches and Consoles

```
1 class Student:
2     def __init__(self, name="ALI HASNAIN", batch="2021"):
3         self.name=name
4         self.batch=batch
5     def __init__(self, department="CIS"):
6         self.department=department
7
8 A1=Student()
9 print(A1.department)
10
11 ## In a single class there could not be more than one constructor.##
12 ## If we apply more than one constructor than the last constructor overwrites the previous one!!!#
```

Run: q3

"C:\Program Files\Python310\python.exe" "C:/Users/HAFIZ COMPUTER/Desktop/HASNAIN/OOP/lab2/q3.py"

CIS

Process finished with exit code 0

lab2 > q4.py

Project

- lab2 C:\Users\HAFIZ COMPUTER\Desktop\HASNAIN\OOP
- main.py
- q1.PNG
- q1.py
- q2.PNG
- q2.py
- q3.PNG
- q3.py
- q4.py
- External Libraries
- Scratches and Consoles

```
1 class Variable:
2     X=int(input("Enter the value of X : "))
3     def __init__(self):
4         self.x=int(input("Enter the modified value of X : "))
5         print()
6         print("The modified value of x is : ",self.x)
7
8 A1=Variable()
9
```

Run: q4

"C:\Program Files\Python310\python.exe" "C:/Users/HAFIZ COMPUTER/Desktop/HASNAIN/OOP/lab2/q4.py"

Enter the value of X : 2021

Enter the modified value of X : 2022

The modified value of x is : 2022

Process finished with exit code 0