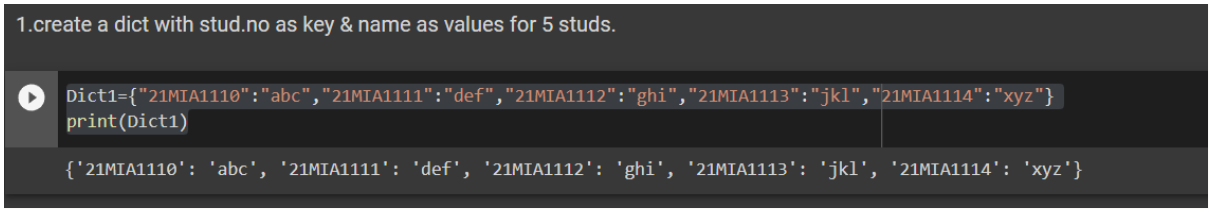
CSE-3041 Data Science Programming Lab
Assignment-3

Name: A J Dazzle **Reg No:21MIA1119**

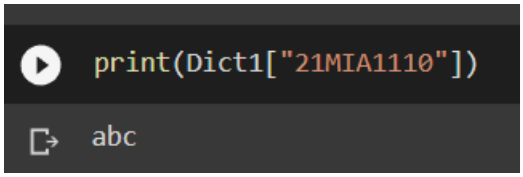
1.Create Dictionary1with student no. as key and name as values for 5 students

```
Dict1={"21MIA1110":"abc","21MIA1111":"def","21MIA1112":"ghi","21MIA1113
":"jkl","21MIA1114":"xyz"}
print(Dict1)
```



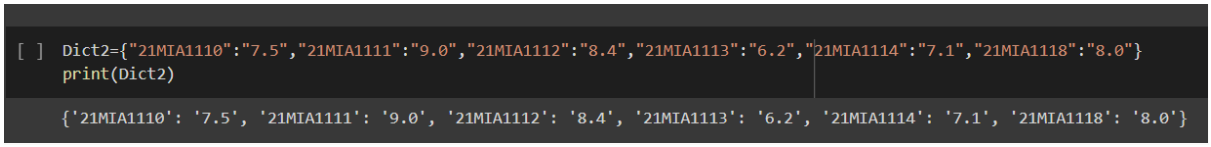
.2.Print the name of student with reg. no 21MCA110

```
print(Dict1["21MIA1110"])
```



3.Create Dictionary2with student no, and CGPA for 5 students.

```
Dict2={"21MIA1110":"7.5","21MIA1111":"9.0","21MIA1112":"8.4","21MIA1113
":"6.2","21MIA1114":"7.1","21MIA1118":"8.0"}
print(Dict2)
```



4.Print the CGPA of a particular student (eg. 21MCA1110)

```
print(Dict2["21MIA1118"])
```

```
[ ]  print(Dict2["21MIA1118"])

     8.0
```

5.Remove the student 21MCA1110 from your Dictionary1.

```
Dict1={"21MIA1110":"abc","21MIA1111":"def","21MIA1112":"ghi","21MIA1113
":"jkl","21MIA1114":"xyz"}
del Dict1["21MIA1110"]
print(Dict1)
```

5.Remove the student 21MIA1110 from your Dict 1.

```
[ ]  Dict1={"21MIA1110":"abc","21MIA1111":"def","21MIA1112":"ghi","21MIA1113":"jkl","21MIA1114":"xyz"}
     del Dict1["21MIA1110"]
     print(Dict1)

     {'21MIA1111': 'def', '21MIA1112': 'ghi', '21MIA1113': 'jkl', '21MIA1114': 'xyz'}
```

6.Add the students 21MCA1120 and 21MCA2220 with their names in Dictionary 1.

```
Dict1={"21MIA1110":"abc","21MIA1111":"def","21MIA1112":"ghi","21MIA1113
":"jkl","21MIA1114":"xyz"}
Dict11={"21MIA1120":"XYZ","21MIA2220":"ZKL"}
Dict1.update(Dict11)
print(Dict1)
```

```
Dict1={"21MIA1110":"abc","21MIA1111":"def","21MIA1112":"ghi","21MIA1113":"jkl","21MIA1114":"xyz"}
Dict11={"21MIA1120":"XYZ","21MIA2220":"ZKL"}
Dict1.update(Dict11)
print(Dict1)

{'21MIA1110': 'abc', '21MIA1111': 'def', '21MIA1112': 'ghi', '21MIA1113': 'jkl', '21MIA1114': 'xyz', '21MIA1120': 'XYZ', '21MIA2220': 'ZKL'}
```

7.Print the numberof items in dictionary1 and dictionary2.

```
Dict1={"21MIA1110":"abc","21MIA1111":"def","21MIA1112":"ghi","21MIA1113
":"jkl","21MIA1114":"xyz"}
print(len(Dict1))
Dict2={"21MIA1110":"7.5","21MIA1111":"9.0","21MIA1112":"8.4","21MIA1113
":"6.2","21MIA1114":"7.1","21MIA1118":"8.0"}
print(len(Dict2))
```

```
Dict1={"21MIA1110":"abc","21MIA1111":"def","21MIA1112":"ghi","21MIA1113":"jkl","21MIA1114":"xyz"}
print(len(Dict1))
Dict2={"21MIA1110":"7.5","21MIA1111":"9.0","21MIA1112":"8.4","21MIA1113":"6.2","21MIA1114":"7.1","21MIA1118":"8.0"}
print(len(Dict2))
```

```
5
6
```

8.Add the students 21MCA1120 and 21MCA2220 in dictionary2 by including their CGPA.

```
Dict2_1={"21MIA1120":"6.4","21MIA2220":"8.3"}
Dict2.update(Dict2_1)
print(Dict2)
```

```
Dict2_1={"21MIA1120":"6.4","21MIA2220":"8.3"}
Dict2.update(Dict2_1)
print(Dict2)
```

```
{'21MIA1110': '7.5', '21MIA1111': '9.0', '21MIA1112': '8.4', '21MIA1113': '6.2', '21MIA1114': '7.1', '21MIA1118': '8.0', '21MIA1120': '6.4', '21MIA2220': '8.3'}
```

9.Add the subjects offered in this semester into the dictionary2.

```
Dict2={"21MIA1110":"7.5","21MIA1111":"9.0","21MIA1112":"8.4","21MIA1113
":"6.2","21MIA1114":"7.1","21MIA1118":"8.0"}
print("Before Addition:",Dict2)
Dict22={"CSE3041":"DataScience","CSE3042":"DBMS","CSE3043":"DSA"}
Dict2.update(Dict22)
print(Dict2)
```

```
Dict2={"21MIA1110":"7.5","21MIA1111":"9.0","21MIA1112":"8.4","21MIA1113":"6.2","21MIA1114":"7.1","21MIA1118":"8.0"}
print("Before Addition:",Dict2)
Dict22={"CSE3041":"DataScience","CSE3042":"DBMS","CSE3043":"DSA"}
Dict2.update(Dict22)
print(Dict2)
```

```
Before Addition: {'21MIA1110': '7.5', '21MIA1111': '9.0', '21MIA1112': '8.4', '21MIA1113': '6.2', '21MIA1114': '7.1', '21MIA1118': '8.0'}
{'21MIA1110': '7.5', '21MIA1111': '9.0', '21MIA1112': '8.4', '21MIA1113': '6.2', '21MIA1114': '7.1', '21MIA1118': '8.0', 'CSE3041': 'DataScience', 'CSE3042': 'DBMS', 'CSE3043': 'DSA'}
```

10.Check whether the subject “Data Science” is offered(use Dictionary2)

```
Dict2={"21MIA1110":"7.5","21MIA1111":"9.0","21MIA1112":"8.4","21MIA1113
":"6.2","21MIA1114":"7.1","21MIA1118":"8.0","DataScience":"CSE3041","DB
MS":"CSE3042","DSA":"CSE3043"}
print(Dict2["DataScience"])
```

```
Dict2={"21MIA1110":"7.5","21MIA1111":"9.0","21MIA1112":"8.4","21MIA1113":"6.2","21MIA1114":"7.1","21MIA1118":"8.0","DataScience":"CSE3041","DBMS":"CSE3042","DSA":"CSE3043"}
print(Dict2["DataScience"])
```

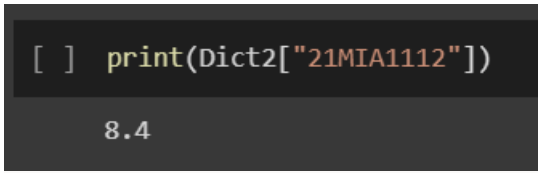
```
CSE3041
```

11.Add one more subject “Ethics” into your Dictionary2 in the appropriate place.

```
Dict23={"Ethics":"HUM1000"}
Dict2.update(Dict23)
print(Dict2)
```

12.Check whether the student 21MCA112 is present in Dictionary2. If found, print his CGPA.

```
print(Dict2["21MIA1112"])
```



13.Delete the student details (21MCA1112) from both the Dictionaries.

```
del(Dict1["21MIA1112"])
print(Dict1)
del(Dict2["21MIA1112"])
print(Dict2)
```