

# Classes and Objects in Python

In [12]:

```
class student(object):

    # DEFINE CTOR
    def __init__(self, name, rollno, sem, deg, password):

        # self ==> this pointer
        self.name = name
        self.rollno = rollno
        self.sem = sem
        self.deg = deg
        self.password = password
        self.email = rollno + "@pucit.edu.pk"

    #GETTERS
    def get_rollno(self):
        return self.rollno

    def get_email(self):
        return self.email

    def set_name(self, name):
        self.name = name

# CREATING AN OBJECT OF CLASS STUDENT
s1 = student("Myb", "bitf19m526", 5, "BS - IT", "pucit")

#ACCESSING MEMBERS DIRECTLY AND THROUGH GETTERS
print(s1.rollno)
print(s1.get_rollno())

print()

print(s1.email)
print(s1.get_email())

print()

#UPDATING MEMBERS DIRECTLY AND THROUGH SETTERS
s1.name = "Muhammad Yasir"
print(s1.name)

s1.set_name("Muhammad Yasir Babar")
print(s1.name)

print()

#CREATING A DATA MEMBER AT RUNTIME
mark_list = {"English":87, "Urdu": 50}
s1.marks = mark_list
print(s1.marks)
```

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Muhammad Yasir

Muhammad Yasir Babar

{'English': 87, 'Urdu': 50}