class Students:

PFSD SKILL-1

- 1. Create a Python script using OOP concepts with following criteria:
- a) Create a class Name Students with following attributes: Student ID, Student First Name, Student Last Name, Course, Year, GPA, University, Email, Mobile. Create at least 3 instances for the above class.
- b) Use appropriate types of Attributes.
- c) Use appropriate types of Properties.
- d) Use appropriate types of Methods.
- e) Create Email based on First Name and Last Name of the Student. (NOTE: If we modify First Name or Last Name it has to reflect in Email.)
- f) Find the Count whenever we create a new instance for the above mentioned class.

```
count=0

def __init__(self,id,fname,lname,course,year,gpa,university,mobile):
    self.StudentID=id
    self.StudentFirstName=fname
    self.StudentLastName=lname
    self.Course=course
```

self.Gpa=gpa
self.University=university
self.Email=self.Gen_Email()
self.Mobile=mobile

Students.count+=1

def Gen_Email(self):

self.Year=year

return self.StudentFirstName+self.StudentLastName+'@'+self.University+'.in'

def StudentDetails(self):

 $out = "ID = "+self.StudentID+"\n"+"FirstName = "+self.StudentFirstName+"\n"+"LastName = "+self.StudentLastName+"\n"+"University = "+self.University+"\n"+"Email = "+self.Email = "+self.$

return out

```
if __name__=="__main__":
   st1=Students('190031187','Nerella','Radhakrishna','CSE',2,9.67,'kluniversity',7286009239)
   print("count= ",Students.count)
   print(st1.StudentDetails())
   print()
   st2=Students('190031134','Nerella','Pavan','CSE',2,9,'kluniversity',9866341486)
   print("count= ",Students.count)
   print(st2.StudentDetails())
   print()
   st3=Students('190031249','Panapakam','Mohith','CSE',2,9,'kluniversity',8328130161)
   print("count= ",Students.count)
   print(st3.StudentDetails())
🕞 1.py - C:/Users/NV PRASAD/Desktop/B.Tech/B.TECH 2ND YEAR 2ND SEM/PFSD/Skill/Skill-1/1.py (3.9.1)
File Edit Format Run Options Window Help
   __name__ ==" _main_":
stl=Students('19031187','Nerella','Radhakrishna','CSE',2,9.67,'kluniversity',7286009239)
print("count= ",Students.count)
print(stl.Studentbetails())
    print()
st2=Students('190031134', 'Nerella', 'Pavan', 'CSE',2,9, 'kluniversity',9866341486)
print(st2. StudentDetails())
print(st2. StudentDetails())
print()
st3=Sfudent
  print()
st3=Students('190031249','Panapakam','Mohith','CSE',2,9,'kluniversity',8328130161)
print("count= ",Students.count)
| print(st3.StudentDetails())
```

OUTPUT

```
IDLE Shell 3.9.1
File Edit Shell Debug Options Window Help
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information.
= RESTART: C:/Users/NV PRASAD/Desktop/B.Tech/B.TECH 2ND YEAR 2ND SEM/PFSD/Skill/Skill-1/1.py
count= 1
ID = 190031187
FirstName = Nerella
LastName = Radhakrishna
University = kluniversity
Email = NerellaRadhakrishna@kluniversity.in
count= 2
ID = 190031134
FirstName = Nerella
LastName = Pavan
University = kluniversity
Email = NerellaPavan@kluniversity.in
count= 3
ID = 190031249
FirstName = Panapakam
LastName = Mohith
University = kluniversity
Email = PanapakamMohith@kluniversity.in
```

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- 2) Create an BankAccount, MobileBankAccount and InternetBankAccount classes with appropriate Attributes, properties and methods.
- a) Use Inheritance among the above-mentioned class.
- b) Demonstrate super() mechanism. (NOTE: Use super() at both init() level and methods level.)
- c) Work with name or main concept.

```
class BankAccount:
  def __init__(self,accno):
    self.accountno=accno
  def get_Account(self):
    return str(self.accountno)
class MobileBankAccount(BankAccount):
  def __init__(self,accno,pin,balance):
    super().__init__(accno)
    self.pin=pin
    self.accBalance=balance
  def AccountDetails(self):
    return "AccountNo = "+super().get_Account()+"\n"+"Balance = "+str(self.accBalance)
class InternetBankAccount(BankAccount):
  def init (self,accno,pin,balance):
    super().__init__(accno)
    self.pin=pin
    self.accBalance=balance
  def AccountDetails(self):
    return "AccountNo = "+super().get_Account()+"\n"+"Balance = "+str(self.accBalance)
if __name__=="__main__":
  acc1=MobileBankAccount(123456789,5643,20000)
  print("Mobile Bank Account")
  print(acc1.AccountDetails())
  acc2=InternetBankAccount(987654321,3465,10000)
  print("Internet Bank Account")
```

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print(acc2.AccountDetails())

🕞 2.py - C:/Users/NV PRASAD/Desktop/B.Tech/B.TECH 2ND YEAR 2ND SEM/PFSD/Skill/Skill-1/2.py (3.9.1) File Edit Format Run Options Window Help class BankAccount: __init__(self,accno):
self.accountno=accno def get_Account(self): eturn str(self.accountno) class MobileBankAccount(BankAccount): def __init__ (self,accno,pin,balance):
 super().__init__ (accno) self.pin=pin self.accBalance=balance def AccountDetails(self):
 return "AccountNo = "+super().get_Account()+"\n"+"Balance = "+str(self.accBalance) class InternetBankAccount(BankAccount): def __init__ (self,accno,pin,balance):
 super().__init__ (accno) self.pin=pin self.accBalance=balance def AccountDetails(self):
 return "AccountNo = "+super().get_Account()+"\n"+"Balance = "+str(self.accBalance)
 name == "__main__": if __name__ == "__main__":
 accl=MobileBankAccount(123456789,5643,20000) print("Mobile Bank Account") print(acc1.AccountDetails()) acc2=InternetBankAccount (987654321, 3465, 10000) print("Internet Bank Account") print(acc2.AccountDetails())

OUTPUT

PiDLE Shell 3.9.1

File Edit Shell Debug Options Window Help