```python
class bankaccount:
  def __init__(self, account_number, account_holder_name, initial_balance=0.0):
    self.__account_number = account_number
    self.__account_holder_name = account_holder_name
    self.__account_balance = initial_balance

  def deposit(self, amount):
    if amount > 0:
      self.__account_balance +=amount
      print("Deposited ${}. New balance: ${}". format(amount, self.__account_balance))
    else:
      print("Invalid deposit amount,")
  def withdraw(self, amount):
    if amount > 0 and amount <= self.__account_balance:
      self.__account_balance -= amount
      print("withdrew ${}. New
```

```python
class Student:
 def __init__(self,name,roll_number,cgpa):
  self.name=name
  self.roll_number=roll_number
  self.cgpa=cgpa
def sort_students(student_list):
 sorted_students=sorted(student_list,
     key=lambda student:student.cgpa,
                            reverse=True)
   return sorted_students
students=
[Student("Hari","A123",7.8),
 Student("Srikanth","A124",8.9),
 Student("Saumya","A125",9.1),
 Student("Mahidhar","A126",9.9),
         ]
sorted_students = sort_students(students)
for student in sorted_students:
  print("name: {},roll number: {},CGPA:
```

Fact

Exit

```python
def fact_rec(n):
  if n==0 or n==1:
    return 1
  else:
    return n*fact_rec(n-1)
number = 6
res = fact_rec(number)
print("the factorial of {} is {}.".format(number,res))
```

Ln 1, Col 1 History

main.py

Run

```python
def cheakleap(year):
  if((year % 400==0)or
     (year % 100!=0)and
     (year % 4  ==0)):
    print("given year a leap year")
  else:
    print("given year is not a leap year")
year = int(input("enter the number"))
cheakleap(year)
```

```python
class Player:
  def play(self):
    print("The player is playing cricket.")
class Batsman(Player):
  def play(self):
    print("The batsman is batting.")
class Bowler(Player):
  def play(self):
    print("The bowler is bowling.")
batsman = Batsman()
bowler = Bowler()
batsman.play()
bowler.play()
```