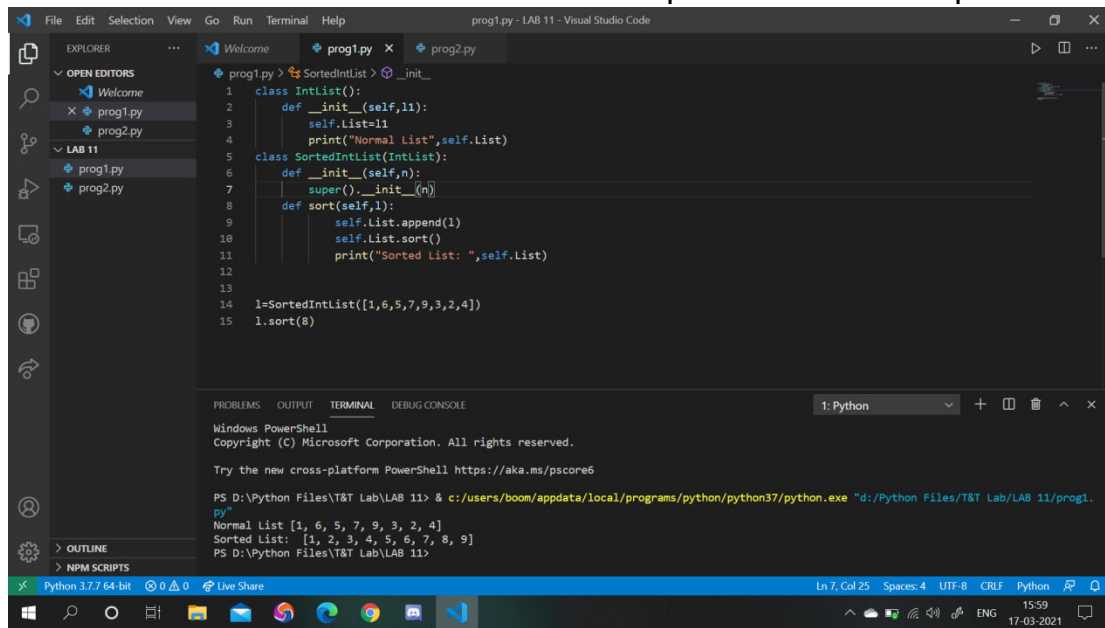


# T&T LAB-11

## BISWARUP MUKHERJEE

### ROLL :- 1806468

1. Write a class SortedIntList that derives from IntList. SortedIntList should be just like IntList except that its element should always be in a sorted order from smallest to largest. This means that when an element is inserted into a SortedIntList it should be put into its sorted place.



```
1 class IntList():
2     def __init__(self,l1):
3         self.list=l1
4         print("Normal List",self.list)
5     class SortedIntList(IntList):
6         def __init__(self,n):
7             super().__init__(n)
8         def sort(self,l):
9             self.list.append(l)
10            self.list.sort()
11            print("Sorted List: ",self.list)
12
13
14 l=SortedIntList([1,6,5,7,9,3,2,4])
15 l.sort(8)
```

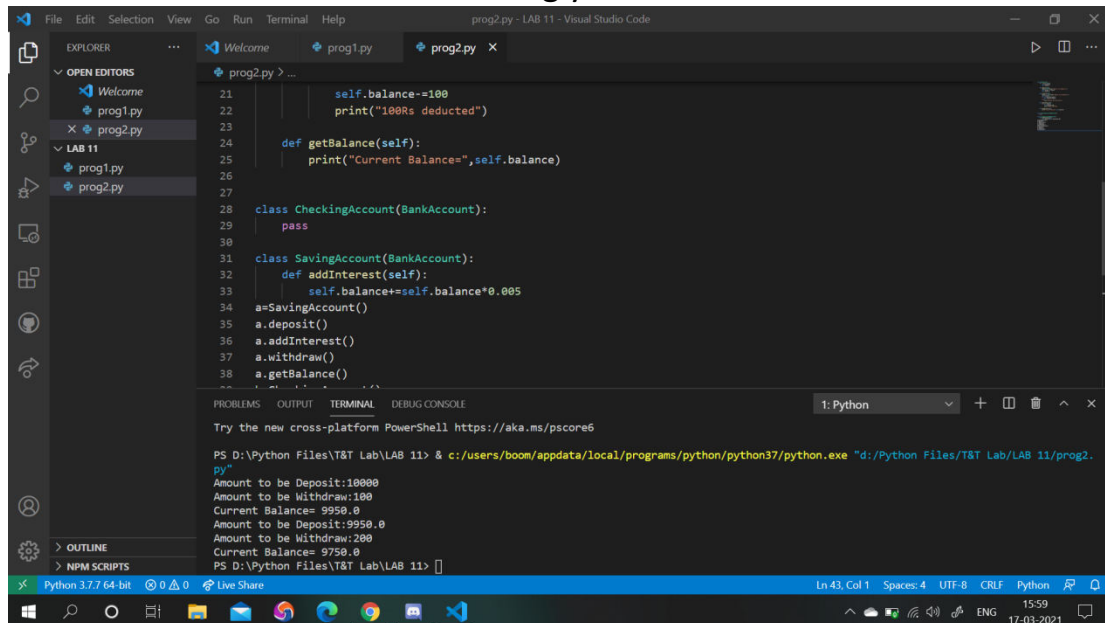
Windows PowerShell  
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS D:\Python Files\T&T Lab\LAB 11> & c:/users/boom/appdata/local/programs/python/python37/python.exe "d:/Python Files/T&T Lab/LAB 11/prog1.py"

Normal List [1, 6, 5, 7, 9, 3, 2, 4]  
Sorted List: [1, 2, 3, 4, 5, 6, 7, 8, 9]  
PS D:\Python Files\T&T Lab\LAB 11>

2. WAP in python where classes SavingAccount and CheckingAccount are derived from BankAccount. The SavingAccount will have a function addInterest which will add some interest to the account balance at the end of the month. The CheckingAccount will have following functions: deposit() which will add amount to the balance, withdraw() which will subtract amount from balance and deductFees() which will track the transaction count and will accordingly deduct amount from balance.



```
21     self.balance -= 100
22     print("100Rs deducted")
23
24     def getBalance(self):
25         print("Current Balance=", self.balance)
26
27
28 class CheckingAccount(BankAccount):
29     pass
30
31 class SavingAccount(BankAccount):
32     def addInterest(self):
33         self.balance += self.balance * 0.005
34
35 a = SavingAccount()
36 a.deposit()
37 a.addInterest()
38 a.withdraw()
39 a.getBalance()
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

1: Python

Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```
PS D:\Python Files\T&T Lab\LAB 11> & c:/users/boom/appdata/local/programs/python/python37/python.exe "d:/Python Files/T&T Lab/LAB 11/prog2.py"
Amount to be Deposit:10000
Amount to be Withdraw:100
Current Balance= 9950.0
Amount to be Deposit:9950.0
Amount to be Withdraw:200
Current Balance= 9750.0
PS D:\Python Files\T&T Lab\LAB 11>
```

Python 3.7.7 64-bit 0 0 0 Live Share Ln 43, Col 1 Spaces: 4 UTF-8 CRLF Python 15:59 17-03-2021