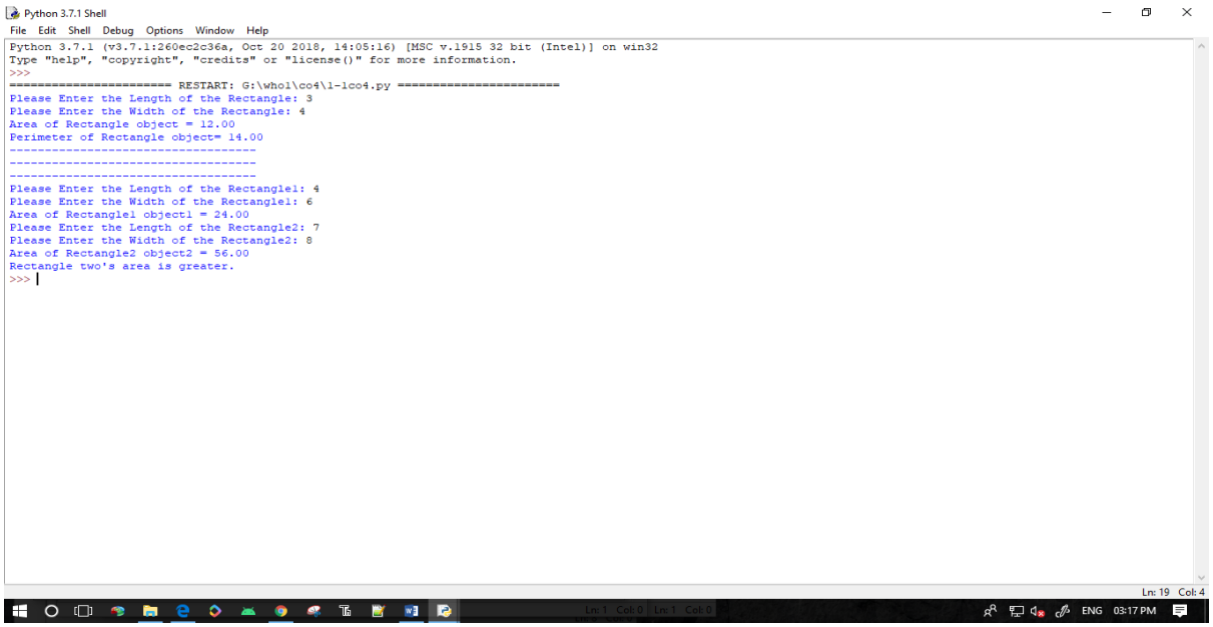
Co4

1. ***Pgm 1***

```
class Rectangle:
    def __init__(self, length, width):
        self.length = length
        self.width = width


    def compute_area(self):
        return self.length * self.width


    def compute_perimeter(self):
        return 2 * (self.length+self.width)
l= float(input('Please Enter the Length of the Rectangle: '))
w= float(input('Please Enter the Width of the Rectangle: '))


object1 = Rectangle(l,w)


area = object1.compute_area()
perimeter = object1.compute_perimeter()
```

out put



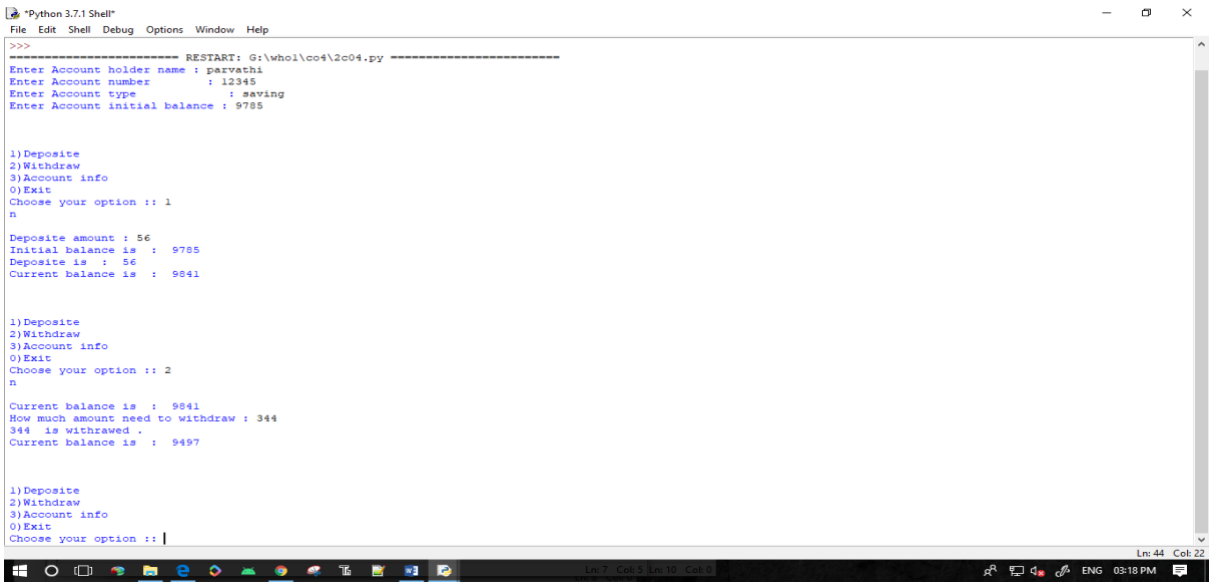
2. ***Pgm 2***

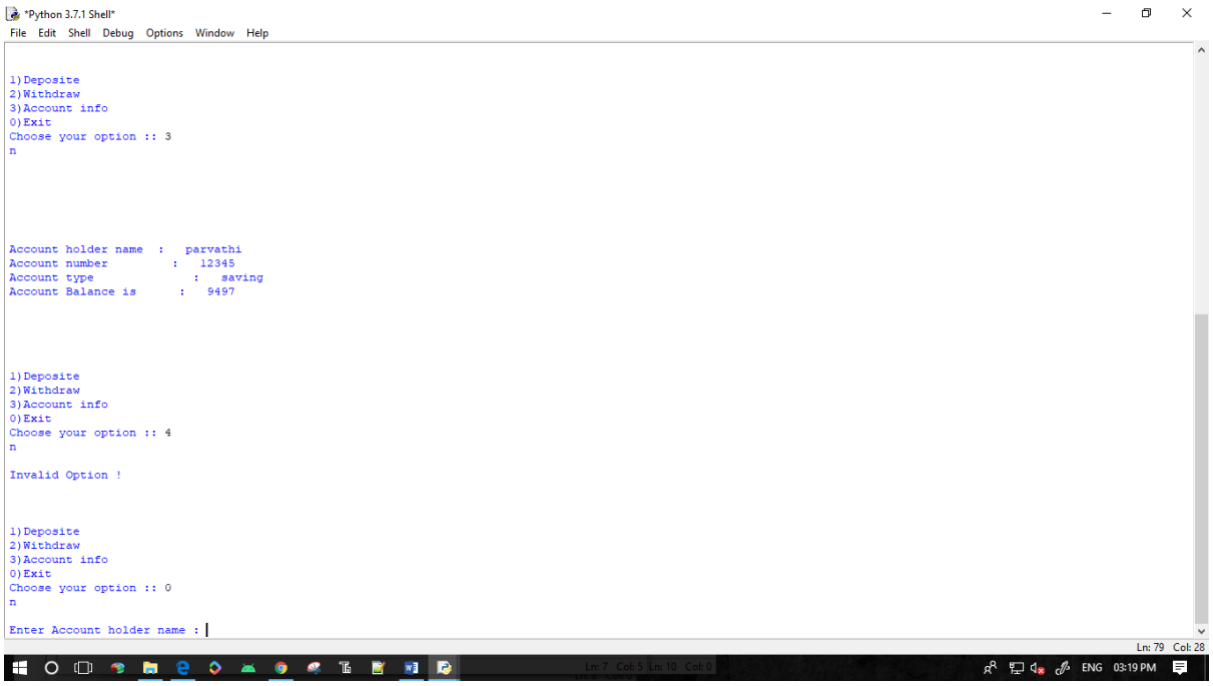
```
class bank:
    __acc_name=""
    __acc_no = ""
    __acc_type = ""
    __acc_balance = 0

    def __init__(self,a_name,a_no,a_type,a_balance):
        self.__acc_name = a_name
        self.__acc_no = a_no
        self.__acc_type = a_type
        self.__acc_balance = a_balance

    def deposite(self,a_deposit):
        print("Initial balance is  : ",self.__acc_balance)
        print("Deposite is  : ",a_deposit)
        self.__acc_balance += a_deposit
        print("Current balance is  : ",self.__acc_balance)
```

```
    def withdraw(self):
        print("Current balance is  : ",self.__acc_balance)
        self.amount = int(input("How much amount need to withdraw : "))
        if self.amount > self.__acc_balance:
            print("You don't have enough balance to withdraw !!")
            print("Current balance is  : ",self.__acc_balance)
        else:
            print(self.amount," is withrawed .")
            self.__acc_balance -= self.amount
            print("Current balance is  : ",self.__acc_balance)

    def acc_info(self):
        print("\n\n\n\n")
        print("Account holder name  :  ",self.__acc_name)
        print("Account number       :  ",self.__acc_no)
        print("Account type         :  ",self.__acc_type)
        print("Account Balance is   :  ",self.__acc_balance)
        print("\n")


def main():

    name  = input("Enter Account holder name : ")
    no    = input("Enter Account number       : ")
    atype  = input("Enter Account type         : ")
    bal    = int(input("Enter Account initial balance : "))
    holder = bank(name,no,atype,bal)

    while(True):
        print("\n\n")
```

```
        opt = int(input("1)Deposite \n2)Withdraw \n3)Account info \n0)Exit\nChoose your option :: "))
        print("n\n")
        if opt == 1:
            amount = int(input("Deposite amount : "))
            holder.deposite(amount)
        elif opt == 2:
            holder.withdraw()
        elif opt == 3:
            holder.acc_info()
        elif opt == 0:
            break
        else:
            print("Invalid Option !")

if __name__ == "__main__":
    while(True):
        main()
```

out put



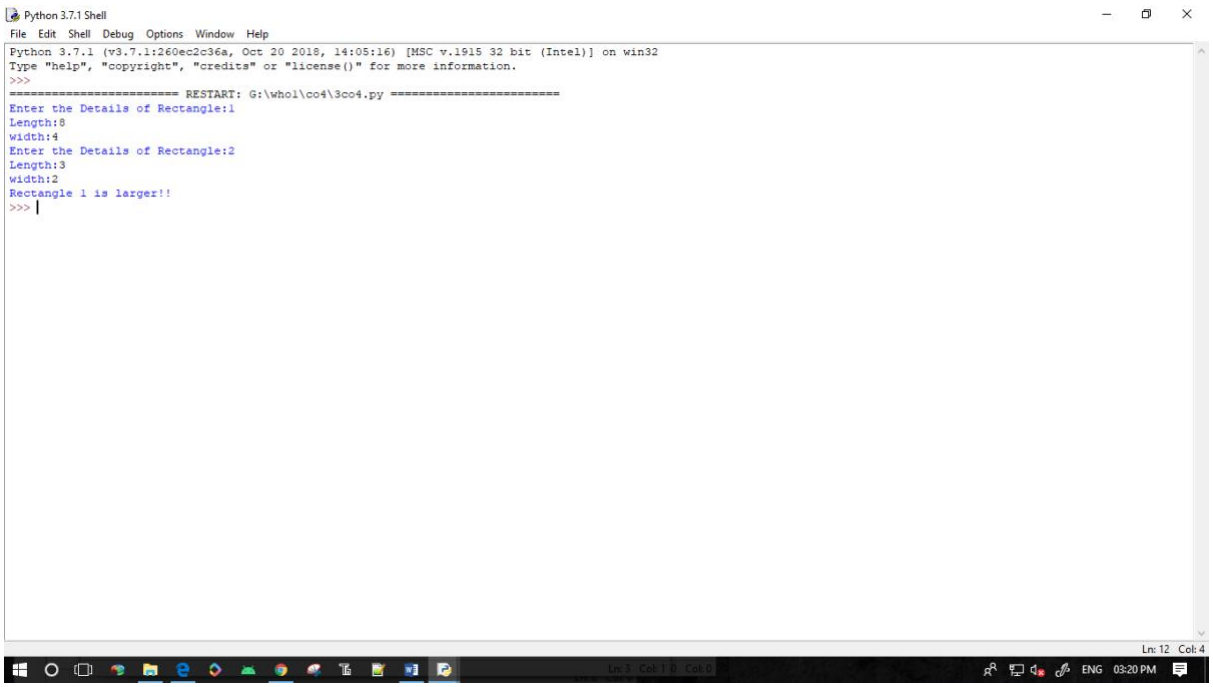


3. ***Pgm 3***

```
class rectangle:
    def __init__(self,length,width):
        self.length=length
        self.width=width
    def __lt__(self,a1):
        area1=self.length*self.width
        area2=a1.length*a1.width
        if(area1>area2):
            return(True)
        else:
            return(False)



print("Enter the Details of Rectangle:1")
l1=int(input("Length:"))
```

```
w1=int(input("width:"))
r1=rectangle(l1,w1)
print("Enter the Details of Rectangle:2")
l2=int(input("Length:"))
w2=int(input("width:"))
r2=rectangle(l2,w2)
if(r1>r2):
    print("Rectangle 2 is larger!!")
else:
    print("Rectangle 1 is larger!!")
```

out put



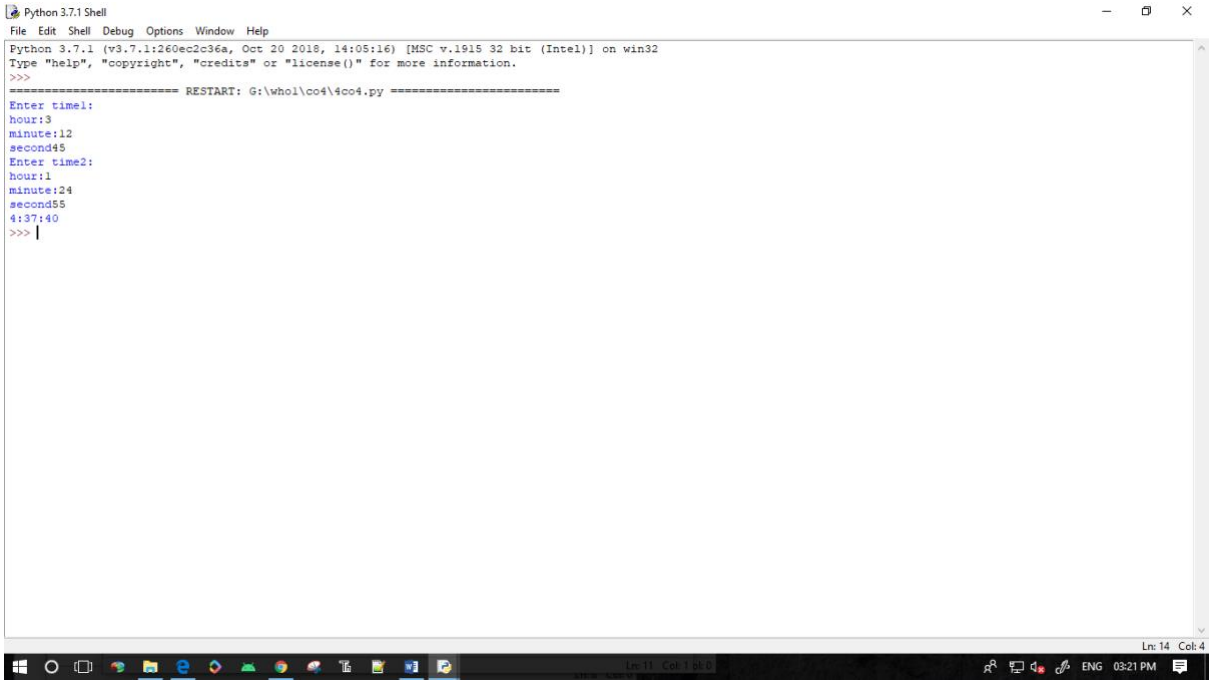
4. ***Pgm 4***

```
class Time:
    def __init__(self,hour,minute,second):
```

```
        self.__hour=hour
        self.__minute=minute
        self.__second=second
    def __add__(self,a2):
        second=self.__second+a2.__second
        minute=self.__minute+a2.__minute
        hour=self.__hour+a2.__hour
        if(second>60):
            second=second-60
            minute=minute+1
        if(minute>60):
            minute=minute-60
            hour=hour+1
        return hour,minute,second
print("Enter time1:")
h1=int(input("hour:"))
m1=int(input("minute:"))
s1=int(input("second"))

t1=Time(h1,m1,s1)

print("Enter time2:")
h2=int(input("hour:"))
m2=int(input("minute:"))
s2=int(input("second"))

t2=Time(h2,m2,s2)

hr,min,sec=t1+t2
print(hr,end=":")
print(min,end=":")
```

print(sec,end=" ")

out put



5. ***Pgm 5***

Class publisher:

Def getbook(self):

Self.title=input(“title :”)

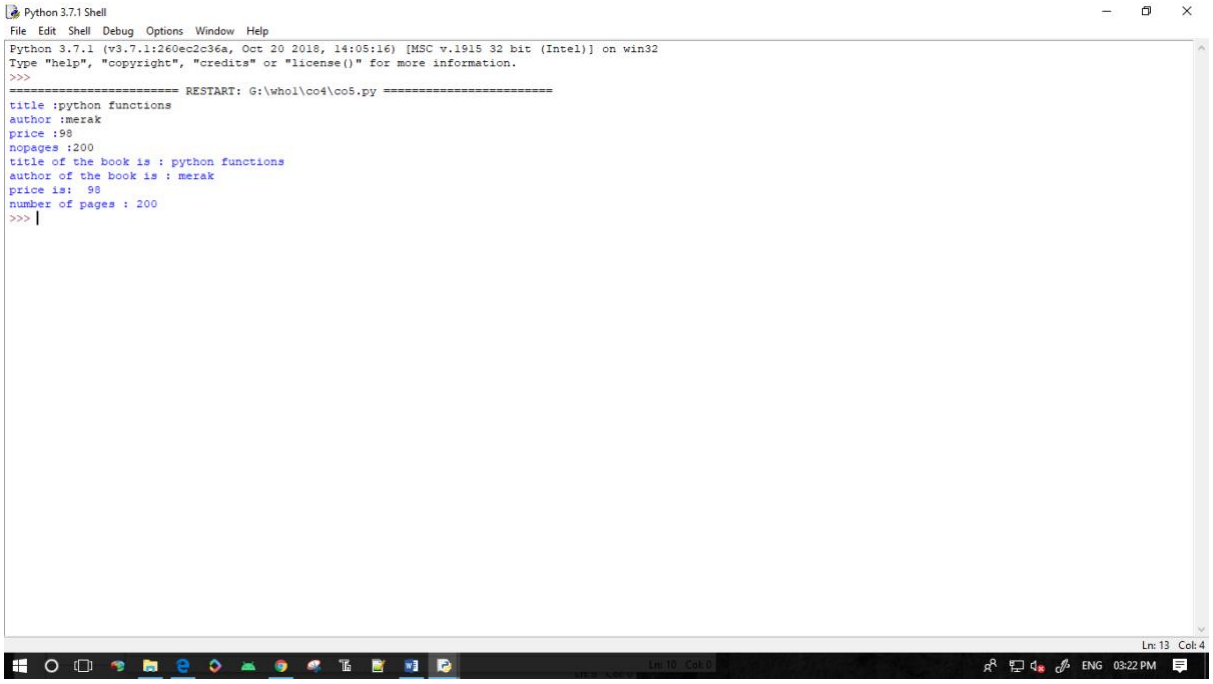
Self.author=input(“author :”)

Class python(publisher):

Def getdetails(self):

```
        Self.price=int(input(“price :”))

        Self.nopages=int(input(“nopages :”))

    Def display(self):

        Print(“title of the book is :”,self.title)

        Print(“author of the book is :”,self.author)

        Print(“price is: “,self.price)

        Print(“number of pages :”,self.nopages)




A=python()

a.getbook()

a.getdetails()

a.display()
```

<u>out put</u>


Python 3.7.1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.1 (v3.7.1:260ec2c36a, Oct 20 2018, 14:05:16) [MSC v.1915 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: G:\who1\co4\co5.py ==========
title :python functions
author :merak
price :98
nopages :200
title of the book is : python functions
author of the book is : merak
price is: 98
number of pages : 200
>>>
Ln: 13 Col: 4
ENG 03:22 PM