Experiment6

October 4, 2022

[1]:
```
class Bank(dict):
    def __init__(self,name,num,at):
        self.name = name
        self.acc_num = num
        self.acc_type = at
        self.balance =0
        self.intrest=0

    def deposit(self,amt):
        self.balance += amt

    def withdraw(self,amt):
        self.balance -= amt

    def findInterest(self):
        if self.balance >= 500000:
            self.intrest = self.balance * 0.08
        elif self.balance >= 300000:
            self.intrest = self.balance * 0.07
        elif self.balance >= 100000:
            self.intrest = self.balance * 0.05
        else:
            self.intrest = self.balance * 0.03

        return self.intrest
```

[2]:
```
p1 = Bank("Karan", 69,"Savings")
```

[3]:
```
p1.deposit(700000)
```

[4]:
```
p1.balance
```

[4]:
```
700000
```

[5]:
```
p1.deposit(200)
```

[6]:
```
p1.balance
```

[6]:
```
700200
```

[7]:
```
p1.withdraw(p1.findInterest())
```

[8]:
```
p1.balance
```

[8]:
```
644184.0
```

[9]:
```
p1.findInterest()
```

[9]:
```
51534.72
```

[18]:
```
class Person():
    def __init__(self, name, bdate,city):
        self.name = name
        self.bdate = bdate
        self.city = city

class Student(Person):
    def __init__(self,name,bdate,city,roll_num,branch,total_marks,year):
        super().__init__(name,bdate,city)
        self.roll = roll_num
        self.branch = branch
        self.total_marks = total_marks
        self.year = year

    def percentage(self):
        pass


class Grad(Student):
    def __init__(self,name,bdate,city,roll_num,branch,total_marks,year):
        super().__init__(name,bdate,city,roll_num,branch,total_marks,year)
        self.marks = int(input("Enter Obtained Marks"))

    def percentage(self):
        self.percent = self.marks/600
        return self.percent

class PostGrad(Student):
    def __init__(self,name,bdate,city,roll_num,branch,total_marks,year):
        super().__init__(name,bdate,city,roll_num,branch,total_marks,year)
        self.total_marks = int(input("Enter Obtained Marks"))

    def percentage(self):
        self.percent = self.total_marks/400
        return self.percent *100
```

[19]:
```
s1 =PostGrad("Karan","22/03/2001","20BCE051","Ahmedabad","CSE",0,2024)
```

```
Enter Obtained Marks 203
```

[20]:
```
s1.percentage()
```

[20]:
```
50.74999999999999
```

[ ]:
```

```