Python Assignment: 3

Given two sets namely as A={1,2,9,3,1,3,7,9,3,1,3,2,4,5,6} and B={5,8,4,3,7,8} and perform set operations namely union, intersect, difference and symmetric_difference use set methods.

```
A={1,2,9,3,1,3,7,9,3,1,3,2,4,5,6}

B={5,8,4,3,7,8}

print(A | B)   #set union

print(A & B)    #set intersection

print(A - B)

print(A ^ B)
```

Create a python class named as “Bank” with constructor (bname,bid) and create a function named as displayBankDetails() in that print the bname and bid. Create an object

named as”bobj” and pass the value in the constructor.

```
class Bank():
    bname=input();
    bid=int(input());
    def displayBankDetails(self):
                print("bname:",self.bname);
                print("bid:",self.bid);
bobj = Bank()
bobj.displayBankDetails()
```

Given two sets namely as A={1,2,9,3,1,3,7,9,3,1,3,2,4,5,6} and B={5,8,4,3,7,8} and perform set operations namely union, intersect, difference and symmetric_difference use operators to perform these operations.

```
A={1,2,9,3,1,3,7,9,3,1,3,2,4,5,6}

B={5,8,4,3,7,8}

print(A | B)   #set union
```

```
print(A & B)    #set intersection
print(A - B)   #set diffrence
print(A ^ B)   #set symmetric_difference
```

Create a python class named as “Payments” with properties pid=10,pname=”insurancebill” and create a function named as displayPaymentDetails() in that print the pname

and pid. Create an object named as”pobj” and print it. Finally delete the object pobj using del keyword.

```
class Payments():
    pid= 10;
    pname= 'insurancebill';
    def displayPaymentDetails(self):
       print("pid:",self.pid);
       print("pname:",self.pname);
pobj = Payments()
pobj.displayPaymentDetails()

del(pobj)
print(pobj)
```

Create a python class named as “Person” with constructor(pname,id,age) and create the object “pobj” and pass the value as (“ Ajay”, 111,24) use object class methods

Print the attribute name of the objects use getattr()

Reset the value for the pname as “Anish” use setattr()

Print the modified value for the object use getattr()

Check whether the person class contains the attribute as “age” use hasattr()

Delete the person class attribute id use delattr()

```
class Person:
  def __init__(self,pname,id,age):
```

```
        self.pname=pname;
        self.id=id;
        self.age=age;
    def displayPerson(self):
        print("pname",self.pname);
        print("id",self.id);
        print("age",self.age);
pobj = Person("Ajay", 111,24)
pobj.displayPerson()

print(getattr(pobj, 'pname'))
setattr(pobj, "pname", "Anish")
print(getattr(pobj, 'pname'))
print(hasattr(pobj, 'age'))
delattr(s, 'id')
print(pobj, 'id')
```