

In []:

```
class emp:
    empid = None
    empname = None
    points = None
    group = None
    avg_points = None

    def __init__(self, empid=10, empname='new_emp'):
        self.empid = empid
        self.empname = empname

    def addPoints(self, val=0):
        self.points += val

    def removePoints(self, val=0):
        if val >= self.points:
            self.points = 0
        else:
            self.points -= val

    def computeGroup(self):
        if self.points <= 100:
            self.group = 'Silver'
            return 'Silver'
        elif self.points > 100 and self.points <= 500:
            self.group = 'Gold'
            return 'Gold'
        elif self.points > 500 and self.points <= 1000:
            self.group = 'Platinum'
            return 'Platinum'
        elif self.points < 1000:
            self.group = 'Diamond'
            return 'Diamond'

    def __str__(self):
        print('Empid :', self.empid)
        print('Empname :', self.empname)
        print('Points :', self.points)
        print('Group :', self.group)
        print('Avg Points :', self.avg_points)
```

```

def list_emp(my_list, gp):
    print('Members of group {}'.format(gp))
    for var in my_list:
        if var.group==gp:
            print(var.empname)

num = int(input('Enter the number of employees:'))
my_list = []
for i in range(num):
    empid = int(input('Enter the empid:'))
    empname = input('Enter the empname:')
    obj = emp(empid, empname)
    my_list.append(obj)

for i in range(num):
    p = int(input('Enter the points for the emp {} : '.format(i+1)))
    my_list[i].points = p

for i in range(num):
    res = my_list[i].computeGroup()
    print('The group of {} is {}'.format(i+1, res))

gp = input('Enter the group to view its employees : ')
list_emp(my_list, gp)

```

In []:

```

class property:
    sq_footage = None
    num_bedrooms = None
    num_bathrooms = None
    # Rental properties
    rent = None
    furnished = None
    utilities = None
    # Purchase properties
    purchase_price = None
    annual_taxes = None
    # Prices
    def dis_rentalPro(self):
        print('Rent price : {}'.format(self.rent))
        print('Furnishment : {}'.format(self.furnished))

```

```

        print('Utilities : {}'.format(self.utilities))
    def dis_purchasePro(self):
        print('Purchase price: {}'.format(self.purchase_price))
        print('Annual Taxes: {}'.format(self.annual_taxes))

class house(property):
    num_stories = None
    garage = None
    yard_fenced = None
    def house_info(self):
        print('Area in square footage : {}'.format(self.sq_footage))
        print('Number of bedrooms : {}'.format(self.num_bedrooms))
        print('Number of bathrooms : {}'.format(self.num_bathrooms))
        print('Number of stories : {}'.format(self.num_stories))
        print('Type of garage : {}'.format(self.garage))
        print('Is yard fenced : {}'.format(self.yard_fenced))

class apartment(property):
    balcony = None
    laundry = None
    def apartment_info(self):
        print('Area in square footage : {}'.format(self.sq_footage))
        print('Number of bedrooms : {}'.format(self.num_bedrooms))
        print('Number of bathrooms : {}'.format(self.num_bathrooms))
        print('Balcony present : {}'.format(self.balcony))
        print('Type of laundry : {}'.format(self.laundry))

class agent(house,apartment):
    def create_house(self):
        self.sq_footage = int(input('Area in square footage : '))
        self.num_bedrooms = int(input('Number of bedrooms : '))
        self.num_bathrooms = int(input('Number of bathrooms : '))
        self.num_stories = int(input('Number of stories : '))
        self.garage = input('Type of garage : ')
        self.yard_fenced = input('Is yard fenced : ')
        self.rent = int(input('Rent price : '))
        self.furnished = input('Furnishment : ')
        self.utilities = input('Utilities : ')
        self.purchase_price = int(input('Purchase price: '))
        self.annual_taxes = int(input('Annual Taxes: '))
    def create_apartment(self):

```

```

        self.sq_footage = int(input('Area in square footage : '))
        self.num_bedrooms = int(input('Number of bedrooms : '))
        self.num_bathrooms = int(input('Number of bathrooms : '))
        self.balcony = input("Is balcony present : ")
        self.laundry = input("Type of laundry : ")
        self.rent = int(input('Rent price : '))
        self.furnished = input('Furnishment : ')
        self.utilities = input('Utilities : ')
        self.purchase_price = int(input('Purchase price: '))
        self.annual_taxes = int(input('Annual Taxes: '))

obj1 = agent()
obj2 = agent()
my_list = []
num = int(input("Enter the number of properties you want to make : "))
for i in range(num):
    choice = int(input("Enter type 1.House 2.Apartment : "))
    if choice==1:
        obj1.create_house()
    elif choice==2:
        obj2.create_apartment()
print('Info regarding your house : ')
obj1.house_info()
obj1.dis_rentalPro()
obj1.dis_purchasePro()
print('Info regarding your apartment : ')
obj2.apartment_info()
obj2.dis_rentalPro()
obj2.dis_purchasePro()

```