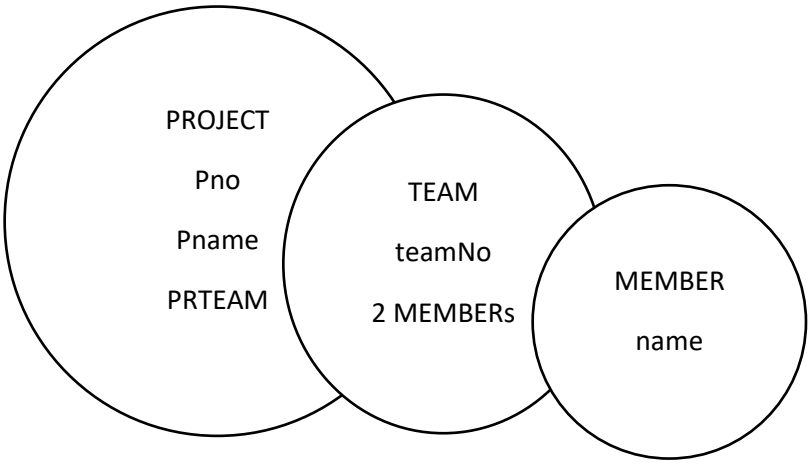
MS TEAMS SESSION NOTES

27-APR-2020

Example1:

Assume there are **PROJECT**s (projNo,pName, **TEAM** (teamNo, 2 **MEMBER**S (name)))



Public Data Members:

Each Class must have a **default Constructor** and a **print** method.

Additionally add parameterized Constructor into each class.

```
//member.cpp

class member{
private:
	string name;
public:
	member()
	{
		cout << "Enter name of the member:";
		cin >> this->name;
	}
	member(string name)
	{
		this->name = name;
	}
	void printMember()
	{
		cout <<this->name << "\t\t";
	}
};
```

```
//team.h
class team{
private:
	static int counter;
	int tno;
	member member1, member2;
public:
	team()
	{
		this->tno = counter;
		counter++;
	}
	//team(string memNM1, string memNM1):member1(memNM1),member2(memNM1)
	team(member m1, member m2) :member1(m1), member2(m2)
	{
		this->tno = counter;
		counter++;
	}
	void printTeam()
	{
		cout << "TeamNo:" << this->tno<<endl;
		cout << "Members:" << endl;
		member1.printMember();
		member2.printMember();
		cout << endl;
	}
};
int team::counter = 1;

//project.h
class project{
private:
	int pno;
	string pname;
	team prTeam;
public:
	project()
	{
		cout << "Enter project number and name:";
		cin >> this->pno;
		getline(cin, this->pname);
	}
	//project(int pnoi, string pname, string mem1,string
mem2):prTeam(mem1,mem2)
	project(int pno, string pname, team pt) :prTeam(pt)
	{
		this->pno = pno;
		this->pname = pname;
	}
	void printProject()
```

```
	{
		cout << "Project No:" << this->pno << "\t\t"
			<< "Project Name:" << this->pname << endl;
		prTeam.printTeam();
	}
};
```

//pTeam1.cpp

```
#include<iostream>
#include<string>
using namespace std;
#include"member.h"
#include"team.h"
#include"project.h"

void main()
{
	project itec243;
	itec243.printProject();

	system("pause");
}
```

//pTeam2.cpp

```
#include<iostream>
#include<string>
using namespace std;
#include"member.h"
#include"team.h"
#include"project.h"
void main()
{
	member m1("Ali"), m2("Ayse");
	team t1(m1, m2);
	project p1(101, "OOP", t1);

	p1.printProject();
	system("pause");
}
```

Example 2

CAR (plateNo, color, OWNER(name, PHONE (areacode, number), DOB(day,month,year))

```
//dob.h
class dob{
private:
	int day, year;
	string month;
public:
	dob(int day, string month, int year)
	{
		this->day = day;
		this->month = month;
		this->year = year;
	}
	void printDOB()
	{
	cout << this->day << "-" << this->month << "-" << this->year << endl;
	}
};

//phone.h
class phone{
private:
	string areacode, pno;
public:
	phone(string areacode, string pno)
	{
		this->areacode = areacode;
		this->pno = pno;
	}
	void printPhone()
	{
		cout << this->areacode << " " << this->pno << endl;
	}
};

//owner.h
class owner{
private:
	string name;
	dob bdate;
	phone ph;
public:
	/*owner(string name, int day, string month, int year, string
areacode, string pno)
		:bdate(day, month, year), ph(areacode, pno)*/
```

```
      owner(string name, dob bd, phone p) :bdate(bd), ph(p)
      {
            this->name = name;
      }
      void printOwner()
      {
            cout << "Owner:" << this->name << endl;
            cout << "Date of Birth:";
            bdate.printDOB();
            cout << "Phone Number:";
            ph.printPhone();
      }
};

//car.h
class car{
private:
      string plateNo, color;
      owner carowner;
public:

/*    car(string plateNo, string color, string name, int day, string month,
int year, string areacode, string pno)
            :carowner(name, day, month, year, areacode, pno)*/

      car(string plateNo, string color, owner co) :carowner(co)
      {
            this->plateNo = plateNo;
            this->color = color;
      }

      void printCar()
      {
            cout << "PlateNo:" << this->plateNo << "\t Color:" << this-
>color << endl;
            cout << "Owner INFO" << endl;
            carowner.printOwner();
      }
};
```

```
//carOwner.cpp
#include<iostream>
#include<string>
using namespace std;
#include"dob.h"
#include"phone.h"
#include"owner.h"
#include"car.h"
void main()
{
//    car mycar("AA334", "BLUE", "MUSTAFA", 27, "APRIL", 2000, "(0533)",
"8809776");

      dob dobOBJ(27, "APRIL", 2000);
      phone phOBJ("(0533)", "8809776");
      owner owOBJ("MUSTAFA", dobOBJ, phOBJ);
      car mycar("AA334", "BLUE", owOBJ);

      mycar.printCar();

      system("pause");

}
```