



Computer Programming (CS-B)

Quiz 03 FALL 2018

Name & Roll No.

Total marks: 10

Total Time: 20 Mins.

Q1. Write the output/error of the following program.

```
struct tempStruct
{
    string name;
    string traits;
    double age;
};
class petClass {
private:
    string name;
    string traits;
    double * age; //age in years
public:
    tempStruct sObj;
    petClass()
    {
        this->name="Bailey";
        this->traits="Husky";
        this->age= NULL;
    }

    void showPet()
    {
        cout << this->name<<"\t"<< this->traits <<"\t" <<
        *this->age << endl;
    }
};
```

```
int main()
{
    petClass *dog= new petClass();
    dog->sObj.name="Jacky";
    dog->sObj.traits="Siberian";
    dog->sObj.age= 4.5;
    petClass * myDog = new petClass(dog->sObj);
    myDog->showPet();
    petClass *yourDog=new petClass();
    yourDog=dog;
    (*yourDog).showPet();
    delete myDog;
    delete dog;
    delete yourDog;
    return 0;
}
```

Output/Error:

Jacky Siberian
And the runtime error as there is no copy constructor that is required for second petClass pointer.

Q2: Consider the following statement:

```
friend ostream & operator >> (ostream & osObj, const dumbClass & obj )
```

How C++ compiler convert this statement to function call when you call this function in Visual studio in following form. (Note: obj1 and obj2 are objects of the dumbClass)

```
cin >> obj1 >> obj2;
```

Solution:

```
operator<< ( operator<< (osObj, obj), obj);
```