a. Name all the special member functions of a class

Solution:

default constructor, destructor, copy constructor and assignment operator

b. Write a pure virtual double constant method named S() that takes an int array parameter and an int parameter Solution:

```
virtual double S(int[],int) const = 0;
```

c. Write the assignment operator for the class below.

```
class A
{
    private:
    int x;
    int y;

    public:
    A() : x(0), y(0) {}

    ~A() {}
};

Solution:
    A& operator=(const A& rhs)
{
        if(this != &rhs)

        {
            x = rhs.x;
            y = rhs.y;
        }
        return *this;
}
```

d. What is a class inherited by another class called

Solution:

base class (or superclass)

e. What is a class that inherits another class called

Solution:

derived class (or subclass)

f. Describe what each access specifiers does to the members of a class

Solution:

public makes the member accessible everywhere, protected makes the member accessible by derived classes and the class only and private makes the member accessible by the class only