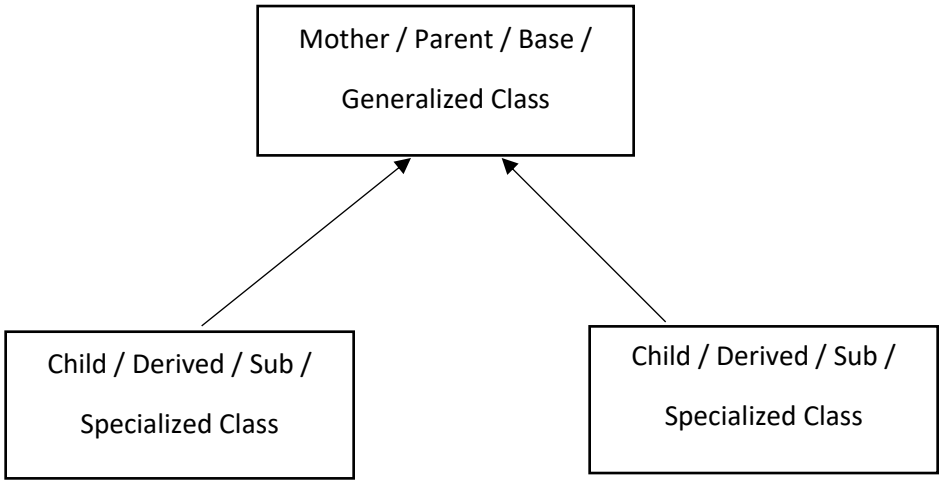
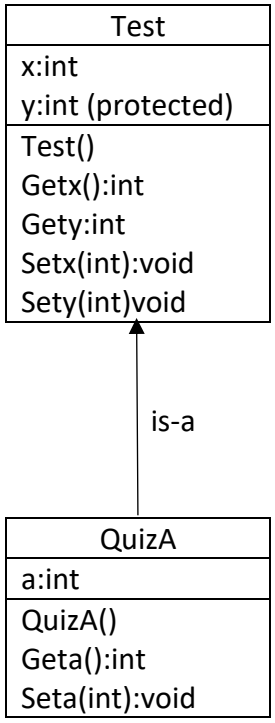
ITEC243 – Lecture Session – (29-APR-2020)
Inheritance (is-a) Relationship



Private, Protected, Public relationships between the mother and child classes may be formed.

"protected" data members: they are like private data members. Only the sub classes of base class may access them.



//base class	//sub class	//sub class	//sub class

class test{
private:
int x;
protected:
int y;
public:
test();
int getx();
int gety();
void setx(int);
void sety(iny);
};
	class quizA : private test
	{
	private:
	int a;
	public:
	quizA();
	int geta();
	void seta(int);
	}
		class quizA : protected test
		{
		private:
		int a;
		public:
		quizA();
		int geta();
		void seta(int);
		}
			class quizA : public test
			{
			private:
			int a;
			public:
			quizA();
			int geta();
			void seta(int);
			}

How members of the base class appear in the derived (sub) class???

If is-a relationship is "private"	
private	**private:** private data members of the base class are **inaccessible.** **protected:** protected data members of the base class become **private** members of the derived class. **public:** public data members of the base class become **private** members of the derived class.
protected	**private:** private data members of the base class are **inaccessible.** **protected:** protected data members of the base class become **protected** members of the derived class. **public:** public data members of the base class become **protected** members of the derived class.
public	**private:** private data members of the base class are **inaccessible.** **protected:** protected data members of the base class become **protected** members of the derived class. **public:** public data members of the base class become **public** members of the derived class.

How about constructor/destructor? Are they accessed by sub-classes???