

Heaven's Light is Our Guide  
Rajshahi University of Engineering & Technology  
Department of Computer Science & Engineering

## **Lab Manual**

Course Code: **CSE 1204 (Sec A)**  
Course Title: Sessional based on CSE 1203

### Module 3 [Inheritance]: (for Week 3)

*Problem Statement:* You have to create an inheritance among **Father** --> **Son** --> **GrandSon** class. The **father** class has the following data members

```
class Father{
    private:
        int money;
    protected:
        int gold;
    public:
        int land;
};
```

Now write the **Son** and **GrandSon** classes with **private/protected/public** access modifier and do the following:

- Try to access **money**, **gold** and **land** from Son class
- Try to access **money**, **gold** and **land** from GrandSon class
- Find the values of money, gold and land when different access modifier is used in the following table

Class		In Son class			In GrandSon class		
Son	GrandSon	money	gold	land	money	gold	land
public	public	?	?	?	?	?	?
protected	public	?	?	?	?	?	?
private	public	?	?	?	?	?	?
public	protected	?	?	?	?	?	?
protected	protected	?	?	?	?	?	?
private	protected	?	?	?	?	?	?
public	private	?	?	?	?	?	?
protected	private	?	?	?	?	?	?
private	private	?	?	?	?	?	?