

Assignment 1

Course Code: CSE 331

Course Title: Advanced Programming

Submitted to:

Name: Md. Anwar Hussen Wadud

Lecturer,

Dept. of CSE

at Bangladesh University of Business

and Technology.

Submitted by:

Name: Syeda Nowshin Ibnat

ID: 17183103020

Intake:39

Section: 01

Program: B.Sc. in CSE

Semester: Summer 2020

Date of Submission: 24.10.2020

Assignment -1

Question: Some programments prefer not to use protected access, because they believe it breaks the encapsulation of the superclass. Discuss the relative merits of using protected access vs. using private access in super classes.

and are accessible only through the public on protected methods of the superclass. Using protected access enables the subclass to manipulate the protected members without using the access methods of the superclass. This makes the code mone brittle, because changes to the superclass might require changes to the superclass instance variable are private, the methods of the superclass instance variable are private, the methods of the superclass must be used to access the data. This encapsulation makes the code easier to maintain, modify and debug.

Protected access

The methods on data members declared as protected aste accessible within same package on sub classes in different package.

```
For example:
  Package P1;
 Public class A
& protected void display ()
{ System · out print In [" It's animided access modifier."); }}
Package P?;
impont P1. *;
class B extends A
{ Public static void main (String angs[])
{ B obj = new B();
  Obj. display (); 33
   Il'n a protected access modifier.
                      Private access
  Any other class of same package will not be able to access these
                                                       members.
for example:
Package P1;
class A S
 System.out. println (" It's a private access modifier."); } }
private void display () }
Public static void main (string ango []) }
class BS
 a A object = new Al);
   Obj. diaplay (); 33
Output:
   ennon: display () has private access in A obj. display ();
                                                          Am:
```