1. What is the difference between **private**and **protected**class members?

When a class is inherited by the derived class, the members of the derived class can have access to the protected members of the base class directly but cannot have direct access to the private members.

1. What is “**this**” pointer?

“this” is an in-built pointer in C++ which points to the object of the class whose member functions are called.

1. Having a pointer as a class data member can lead to some undesirable side effects. What (member functions) should you add to a class to avoid these side effects?

When we have a class data member as pointer than we need to add a member function which performs deep copy as well as we need copy constructor.

1. What is the output of the following code snippet? why? (you should answer it without running the program on your machine) **[2 Marks]**

Output: AF

AG

BF

AG