**REPORT OF THE INHERITANCE:**

**SINGLE INHERITANCE:**

**Private Data Members** and member functions of the base and derived classes cannot be accessible.

**Protected Data Members:** The protected members and functions of any class within the main are inaccessible to objects of derived classes.

While **public members** and functions of both (base and derived) classes can be accessed within the derived, class as well as in the main function.

**MULTIPLE INHERITANCE:**

Their respective classes can only access the **private data members** and member functions of base classes and derived class.

**Protected** base class members and functions can be accessible by derived classes inside the class.

**Public members** and functions of base classes and derived classes can be accessed within the derived class as well as in the main function.

**MULTILEVEL INHERITANCE:**

**Private Data Members** and member functions of the base and derived classes cannot be accessible.

**Protected Data Members:** The protected members and functions of any class within the main are inaccessible to objects of derived classes.

While **public members** and functions of both (base and derived) classes can be accessed within the derived, class as well as in the main function.

**HYBRID INHERITANCE:**

**Private Data Members** and member functions of the base and derived classes cannot be accessible.

**Protected Data Members:** The protected members and functions of any class within the main are inaccessible to objects of derived classes.

While **public members** and functions of both (base and derived) classes can be accessed within the derived, class as well as in the main function.