Patter- Emplement programs on single, Multiple, Hybrid, inheritances and Interfaces. Inheritance and interface are two important concepts in object-oriented programming that tacilities and exuse and abstraction. In ex inherit ances allows a close to inherit properities and methods from its parent closs, while golerface define a set of method and properities that a closs must implement. Single Inhentances: Single inheritances:

Single inheritances is simplest form of inheritances in which a derived class inheritas the properties and methods of a single box class. In C# single inheritances is achieved using the colon-symbol ":"

Syntax:

doss Bax class. Il Propenties and methods. closs Denved Closs: Bose (loss. 11 Additional properties and methods. Multiple (Inhentonce; Multiple inheritance is a type of Inheritance in which a derived class Inherits properties and method from multiple base classes. However C# does not support multiple inhentance deretty. Instead it provides.

SIGN.:

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It provides interface to achieve similar functionality.

Mubrid Inhentonces: Hybrid inheritances is a type of inheritance that combines Songle Inheritance and Multiple inheritance. It is a complex type of inheritance that involves multiple levels of Enhentonces. C# does not suppost Mybrid inheritance describy, but it can be orbieved using inkertaces

Therefore are used to define a contract for closses to imple ment. An interface contains only method signature; and implementation on of the methods is provided by closer that implements interfere (In C# , the Keyword "Interface" is used to defene on interfeace.

Syntaxir eig. anterface Mycluss 3 void mejMethod (); 3 class Mykun: Mycloss. 2 public void Mymethod ()

{ Console. Write [ine ("My class: My Method () is called"); }

static void mora (string[] orgs)

3 Myton-f= new Myton ();

4. My Method ();

Conclusion; In this experiment we kearn how inheritance and interfa ce or powerful concepts in CH programming that allow deceloper to create mes closses bosed on existing closs J.J.M.C.O.E.