Date. Wa. # Polymorphism in C++ Polymorphism in C++ is very important feature in our which is used to define a message or function in many forms. (*) Types: In C++, there are two types of polymorphism. (i): Compile time Polymorphism / Static Polymorphism / Early Binding
An object is bound to its function call at compile time. (ii) Run time Dynamiz Polymorphism | Late binding
The member function is scleeted during runtime and is possible using virtual function. Polymorphism Rimtime Combile Time Polymarphism Polymorphism. Templates Templates function oversiding Overloading

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(x) Pointers to Objects: Syntax: class name * pointename; - Used to create objects at runtime Eg: item + ptr; ptr = 4n; We can refer to their member functions in two Syntax: i) Object-name - function-name (agrimants) Eg: 2. shaul); (aguments)

(g. ptr -> spow (); (iii) (* pointer-name). function_name(). Eg. (* ptr) . 8how(); We can create new objects using pointess and new operator.

Objects using pointess and new operator.

Objects in object of them them them them address to person item to be the objects.

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A pure strival function is a special kind of strival function that doesn't have any body and auts as a placeholder meant to redefined by derived class.

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e) Note:

i) A class is abstract if it has atleast one pure strtual functions.

i) If we don't overside the pure virtual function in derived class, then derived class also becomes abstract dass.

(*) Interface Class

An interface class is a class that has no member variables, and where all of the functions are pure virtual.

Interfaces are useful wheren you want to define the functionability that derived classes must implement, but leave the details of how the desired class implements that functionality entirely up to the desired class.

(x) Dynamic casting:

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A base pointer can point to any of the derived object, but the reverse is not true.

To convert base-class pointers into desired class hornter, we we a casting operator named dynamic - cast.

Done when we need access to something that is derived class specific.