

Static Type and Dynamic Type Solutions

Static Type and Dynamic Type

- Explain the difference between the static type of a variable and its dynamic type
 - The static type is the type used in the variable declaration
 - This is always known at compile time
 - The dynamic type is the type of the variable in memory
 - This may not be known until run time
 - Usually, the static type of a variable and its dynamic type are the same
 - However, if we access a derived class object through a pointer (or reference) to its base class, they are different

Using the Dynamic Type

- Write a simple program that uses the dynamic type of an object