**Inheritance**

* Explain the meaning of inheritance?

Inheritance is based on hierarchical relationship between classes, where a derived class (also known as subclass or a child class) inherits the characteristics of the base class (also known as the superclass or parent class).

* Highlight a benefit of inheritance?

Reusability of the code.

Inheritance let classes inherit properties and methods from the supper class, avoiding code duplications. Code reuse and redundancy are improved.

* Provide an application of inheritance.

An application of abstraction could be in the banking system. Security technologies use data abstraction to safeguard customers sensitive banking information. At an ATM, customers know to slide their debit cards through the slots and enter their credentials to withdraw money from their accounts. They also know how to tailor their deposits from checking or savings accounts and view their balance after the transaction.

Due to data abstraction, customers cannot see how the ATM dispenses money from the inside to the slot on the outside, allowing the customers to grab the bills. They also cannot tell how the ATM provides a printed receipt of the withdrawal. Therefore, the details of the action remain private, preventing outsiders from access their funds.

* Use a code example inheritance from the program wrote