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Title:
Identify commonalities and differences between

Publication Book and Magazine classes. Title,

Price copies are common instance variable

and salecopy is common method. The difference

are, Bookclass has author and ordercopies().

Magazine class has methods ordercopies().

Magazine class has methods ordercopy, Current

issue, receiveissue(). Write a program to find

how many copies of the given books are

ordered and display total sale of publication.

Theory

· Polymorphism in Java:

Polymorphism in Jova is a concept by which we can perform a single action in different ways. Polymorphism is derived from 2 Greek word. poly and morphs. The word poly means many and morphs means forms. So polymorphism means many forms. and it occurs when we have many classes that are related to each other by inheritance.

Types of Polymorphism in Java;

- il Comiple time polymorphism
- 2) Runtime polymorphism.

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I Compile - time Polymorphism:

known as static polymorphism is also known as static polymorphism or early binding. Compile - time polymorphism is a polymorphism that is resolved during the compilation process. Overloading of methods is called through the reference variable of a class. compile - time polymorphism is achieved by method overloading and operator overloading.

Method Overloading.

method overloading occurs when a class has many methods with the same name but different parameters. Two or more methods may have the same name if they have other numbers of parameters, different data types or different numbers of parameters

and different data type.

Operator overloading

An operator is said to be overloaded if it can be used to perform more than one function. Operator overloading is an existing operator is given a new meaning.

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27 Run-Time Polymorphism Whenever an object is bound with the functionality at run time, this is known as runtime polymorphism. The runtime polymorphism can be achieved by method overrding. Java virtual machine determines the proper method to call at the runtime, not at the compile time. It is also called dynamic or late binding. Method overridings says the child class has the same method as declared in the parent class. It means if the child class provides the specific implementation of the method that has been provided by one of its parent classes then its is known as method overriding.

Conclusion:

Hence we have successfully implemented.
the program of polymorphism.