Assignment no-11

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Tillo	24	Interfaces	and 1	packages

Problem Statement - Write a Java program which will demonstrate a concept of interfaces and packages in this assignment design and use of customized interfaces and packages for a specific application are expenses.

Objective - D To understand use of interface

O To understand use of packages

Outcome-O to be oble to implement interface in java

@ To be oble to use packages for specific app

Theory-

Interfaces-

An interface in java is a blueprint of a class sthe static constants and abstract methods. The interface in java is a mechanism to achieve obstraction. There can be only abstract methods in the java interface not method body. An interface declares methods but does not supply bodies for them It is used to achieve abstraction and multiple inheritance in Java.

Example

Interface Resistance ?

public void keyfressed (keyEvent e);

public void keyfeleased (keyEvent e);

public void keyTyped (keyEvent e);

}



There are mainly three reasons to use interface DIt is used to achieve abstraction 1) By interface, we can support the functionality of multiple interitance 1) It can be used to achieve loose coupling An interface is a reference type in Java It is similar to class. It is a collection of abstract methods. A dass implements on interface, thereby inheriting the abstract methods of the interface Along with abstract method of the interface may also contain constants, default methods, static methods, and nested type unless the class that implements the interface is abstract, all the methods of the interface need to be defined in the class Interfaces have the following properties D An interface is implicitly abstract you do not need to use the obstract keyword while declaring an interface @ Each method in an interface it is also implicitly abstract, so the abstract key word is not needed You cannot instantiate an interface An interface may also contain constants (final variables)

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	Packages.
	is a group of stripe types
	Inner interfaces and sub-packages raunder in
	$\frac{1}{1}$
	I a land a sale and a language many in
	packages such as java, lang, owt, javax, swing, no
	net, sql, etc
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	Packages have following properties.
	They are containers for classes / interfaces to avoid
to be the	DIFFE COMMISSION AND AND ADDRESS OF THE PROPERTY OF THE PROPER
	It stored in hierarchial manner and explicitly
	imported into new class using import chiling
O	It provides both naming and visibility control
	mechanism (control
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	A package can be defined as a grouping of
	related types providing access protection
	and namespace and access protection
	and namespace management. Programmers con define their own packages to bundle group of dasses/interface, etc. since the
	dasses/interface, etc since the package creates
	a Dein nom
	a new namespace there can't be any name onflicts with some in other package
	some in other -
· ·	Package.
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simple interface	example		

Package pr; interface printable? void print(); }

```
import pr. *;

class A implements printable ?

public void print() ? system out println ("Hello") . ?

public static void main (string args[]) ?

A. obj = new A();

obj .print();
```

conclusion. We successfully completed the assignment and uderstood the concept of interface and packages in java.