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Subject.	OOP	Class. 2TK1
Semester	2	Roll No. 92100133020

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Subject Code: 01CT0105

Subject Name: Object Oriented Programming

B. Tech. Year – I (Semester II)

UNIT - 4

Worksheet - 4

Enrollment No: 92100133020

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Q-1: What is the use of Interface in Java? Explain Interface with example.

Answer: We can fully abstract a class interface From its implementation. We can specify what a class must do but not how it does it. Interofaces are syntactically similars to classes, but they lack instance variables and their methods are declared without body. In Proactice, this means that you can define interofaces which don't make assumptions about how they are implemented. Once it is defined any numbers or class can implement an interoface, Also one class can implement any numbers of Phterofaces. To implement an interoface, a class must be coneate the complete set of methods defined by the interface. Howevers, each class is from to determine the details of its own implementation. intenface It Code : void example (); class A implements II public void example () System. out. prointln ("Hello Worold"); public state void main (Stroing S[]) d A obj - new A (); obj. example ();

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Q-2: How can we extend one interface from another? Give Example.

Answer: To extend one interofuce from anothers we have to use keyword extends. The syntax is the same as fore inheroit classes, when a class implements an interofuce that inheroit anothers interofuce, it must proovide implementation fore all method defined within the interofuce inheroitance chain.

Code :

```
înterofuce Paroent
 void parcent_method ();
interoface Child extends Parsent
 void child_method ();
Class A implements Child
   public woid Pament ()
   A System. out, println ("method I");
   public void parcent-Method ()
  System. out, prointh ("Method 2");
   public static void main (stroing SED)
   ( A obj = nem A ();
   obj. panent- Method ();
    obj, child-method ();
 3
```

Abstract Class	Interface
1) Abstroact ex class not support multiple inheroitance.	1) Interoface supports multiple inheroitance.
2) Abstract class have abstract on non-abstract method.	2) Interace have only abstract methods.
3) Abstract class have final one non final variable and static on non static variable.	3) Interoface have only Stutic and final variable.
5) Abstroact class have methods like proivate, prootested.	u) It connot have objects. s) Interotace have public by default.
G) abstroact class Name d public abstract void name();	void nume();
7) Abstract class extends using "extends" heywood.	7) Interotace implements using "implements" keyword.
	Jan 1997

References					
Q No	Book Name	Page No			
1	Java - 2	16,5			
2	Java-2	246			
3	Java - 2	152-			