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ASSIGNMENT-2

Q1 Explain difference models of security in Java?

Ans→ The difference model of security in Java are :-

Java SE

This model is called code-centric because it allow the specification of code sequrity in a predifined policy file. when a class is loaded in the java run time enviement, the class coader following associates the following info with the class.

JAAS

The model extends the java SE code- centric model by introducing a user centric model where both the nature of the code & the executor are taken into account in security decisions.

JAVA EE

In this model secured resources are ~~inote~~ identified by URL pattern or method names, the container where the applications run enforce authentication & authorisation according to specification in the application deployment descriptor or annotation in the application code.

JACC - Permion on JEE resources like URL etc.
OPSS - protects all.

Teacher's Signature : ________

Q2→ what is similarities or differences in abstract class & interface?

Similarities

→ Interface can not be instantiated, same way you can not instantiate abstract class.

→ That means you can not create obj of interpereded or abstract class.

Differences

Interfaces	Abstract
→ we can use interface keyword to declare interface	We can use abstract ky to declared abs·class
→ Interface can hold only abstract methods	Abstard class can hold abstract as well as non abstract methods.
→ Implemented using inplements keywords	Extend using extend keyword.

Q3 Explain different usage of keyword 'final')?

Uses of final keyword are to define constant

→ Used to prevent inheritance.

→ Prevent overriding

→ Method arguments.

Q4 Write, down the usefulness of keyword 'Super'?

```
→    Import Java.io.*;
→    Import Java.lang.*;
→    import Java.util.*;
→    class shape
    {
      class 2D
    {
      Public void println ("2D"}
     interface rectangle {
      Public void print();
    }
       Interface square[
         public void print-for();
    }
       interface circle extends rectangle, square{
            public void print;
    }
       class child Implements circle {
```

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```
@verride public void print.rectangle()
{
    Sytem.out.println("rectangle");
}
    public void print_for()
    { System.out.println("circle"); }
    }
    }
    class 3d
    {
     Public void println("3D")
      Interface sphere {
       Public void print_sphere();
     }
        interface cube {
            public void print_cube();
     }
     interface cube extends sphere {
       @ override public void print sphere()
         {
            System.out.println ("sphere")
         }
            public void print for ()
         {
            System.out.println("cube");
         }
}
}
}
}
```

Teacher's Signature : ____________

```
public class Main {
    public static void main (String [], args)
{
    child c = newchild ();
     c.print - rectangle ();
     c.print - square ();
      c.print - sphere ();
  }
  }
```

Q6 Find the output

(i)

```
In Derived!! foo( )
In Derived !! Bar( )
In Base !! foo( )
In Base !! Bar ( )
```

(ii)

name + no. member