## Assignment 26

Q1] What is difference blu inheritance in C++ & inheritance in Jova?

C++: 5 upports multiple inheritance (a class can iherit from more than one base class)

Jova: Supports single inheritance only (multiple Inheritance is achieved using interfaces)

Q2] What are different types of inheritance in jowa?

Explain concept of this

1> Single Inheritance: One class inherits from another

2) Multilevel: A class inherits from another class, which in lum inherits from a third class

3> Hirarchical: Multiple classes inhemit from a sigle class (base class)

Os] Explain concept of this keyword in joina
It refers to the current instance of the class
Used to differential instance variables from local variables
when they have the same name
can be used to invoke the current class constructor or
method.

```
Refers to the parent class object

Used to access parent class variables, nethods & constructors

Helps in method overriding by calling the superclass

Version of the method
```

QS] How We can call one constructor from another constructor of same class

Using this () keyword to call another constructor within same class

Dublic class Domas

Demo() {

This (10);

Sout ("Default Constructor");

Demo (int x) {

Sout ("Parametrized Constructor"+x);

}

3

```
96] HOW WE can call constructor from the constructor
    of derived class?
 use of sonerc) to call base class constructor from
 the derived class constructor
      class Bases
         Bosens
            300 F (" Bare Constructors 9);
   class Derived extends Base ?
         Derived () {
            superci;
         3 SOUL (60 Derived Constructor 99);
```

On J Explain Scenamo in which he have to call the boure class constructor from the derived class explicitly?

When the boure class constructor requires parameters it must be explicitly called using super() in derived class constructor

Constructor

Ex: class Base {

```
Base (int x) &
           sout (66 Bose Constructor with value: 09+2);
   class Derived extends Base &
           Derived () 9
             Super (10);
            Sout (" Denved Constructor99);
Q8]
      Public class Hordlongth ?
    public static void main (Strac] args) {
        it (angs length > 0) {
        String word = angs[0];
         SOUL (16 Length is: 99 + word.length());
     3 else {
         SOUL (60 NO Word entered 09);
```

```
997
         public class Largest Wordlongth {
         PSVM {
           int max Length = 0;
           String largest Hard = 66 ";
          For (String word: angs) {
            if (word length() > max length) {
              maxlongth = word length();
           a larger France = mand;
        Sollt (66 Length of largest word is: " + maxLongth);
a 107 What is use of closs north for journ mograms
It is a command line option that Lens the Java compiler
2 JVM where to find compiled classes 2 packages
It is use to specify the location of external libraries
 & compiled class files.
```