

ASSIGNMENT - 2

JAVA - CSA0983

VIVEK A

192321158

Inheritance

- Single
- Multi-level
- Multiple (not supported in Java)
- hierarchical
- hybrid.

(21)

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Single Inheritance

Class A {

void disA() {

System.out.println("A"); } }

Class B extends A {

void disB() {

System.out.println("B"); } }

Class Test {

public static void main (String[] args) {

B obj = new B();

obj.disA();

obj.disB(); }

Multi-level

```
Class B extends A { Void dis B() {
```

```
System.out.println("B"); } }
```

```
Class C extends B {
```

```
Void dis() {
```

```
System.out.println("C"); } }
```

```
Class Main {
```

```
Public static void main (String [] args) {
```

```
    C d = new C();
```

```
    d.dis A();
```

```
    d.dis B();
```

```
    d.dis C(); } }
```

Hierarchy

```
Class A {
```

```
Void dis A() { System.out.println("A"); } }
```

```
Class B extends A {
```

```
Void dis B() { System.out.println("B"); } }
```

```
Class Main {
```

```
Public static void main (String [] args) {
```

```
    A d = new A();
```

```
    d.dis A();
```

```
    d.dis B();
```

```
    d.dis C(); } }
```


Exception Handling

Class not found Exception

Public class Main {

Public static void main (String [] args) {
try {

Class.forName ("A");

Catch (ClassNot Found Exception e)

{

e.printStackTrace ();

}

}

Hybrid

Class A {

void doA () { System.out.println ("A"); }

Class B extends A {

void doB () { System.out.println ("B"); }

Class C extends B {

void doC () { System.out.println ("C"); }

Class D extends B {

void doD () { System.out.println ("D"); }

Class Main {

Public static void main (String[] args) {

D obj = new D();

obj.doA();

obj.doB();

obj.doC(); }

Multiple

A {

int a;

A() {

a = 5;

}

void display A() {

System.out.println(a);

}

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