## Difference blu Abstract Class & Interface

## Abotead dass

## Interface

- In case of abstract days we can have concrete methods
- -) we can have final methods
- It is compulsory to declare abstract keybord for abstract methods
- -) un con home instance vouiables
- we can have constructor
- tre can have instance & state
- we cannot achieve methole juliantence
- 1) Need of Constructor in abstract class ?

abstract days Parent ?

int a;

Put b

Parent ("int a, "n+6) [

-this a = 9

3 +hir. b = b

Void play () ,

- Count have concrete method 1

- ) cannot have final methods

- ) by default it is abstract no need to dedone explicitly

- ) We count have instance variables [stadic only]

-> By default they ar public static final

-) are constructor

-) we count have instance

Sy static block

-> ve can achieve mu Hiple inhertonces

dass child entends Ponents

1m c?

int do

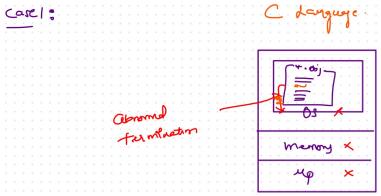
child (int a int b int c int d) [

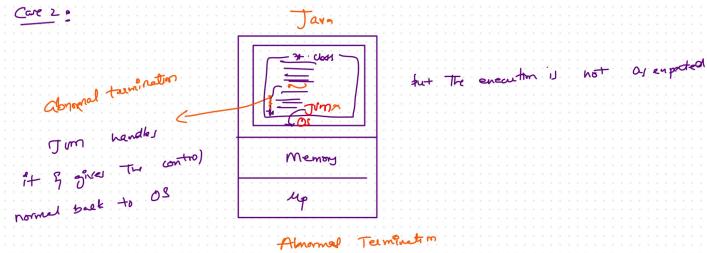
Sopa ( a, b);

feis. (= < )

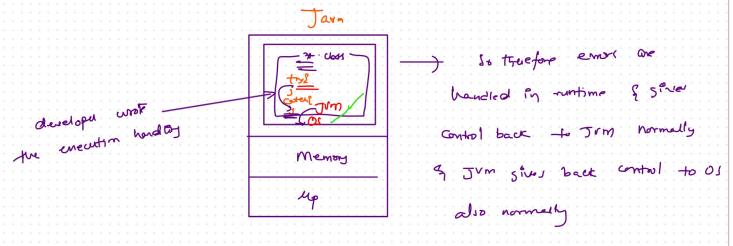
tws d = d;

To initialize the variables which one inherited from perent class -) We can advive constructor chairing 4 plas of 00P ( Encepsulation , 2, Inhertance 23, polymorphism , 4, Abstocation Exception Handling Is it Necessary to rectify the errors? ". It is compulsary to handle the errors C Larguege





Carel:



Normal Termination

## Exception Handling

def: Enception is a enwanted or wrenpected event which occurs

down to program eneution, which disturbs to normal flow of the

eneution

The main objective of exception handling is for the graceful

teamination of two program

Teamination of two program

Surreption handling is a way of withing the attenuative code

to ortinue the normal flow of program

```
Rilby code
                       catch (** * e) {
                            attende code to
                              handle enception
      public static void main(String[] args) {
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter a, b values:");
            int a = sc.nextInt();
            int b = sc.nextInt();
            try {
               System.out.println(a/b);
            }catch (ArithmeticException e) {
               System.out.println(e);
               System.out.println("B value cannot be zero");
            System.out.println("Program completed...");
      }
Note .
  - In The above program that is a every possibility, the
     enception may ocur in the line 5.0.12 (a/b), when ever were enters
    the value of b =0
                enception occurs. The program would terminat abnormally
           the
                    this problem we need to handle the enception
          Over Come
                     Can be handled with to help of
  The enception
         ty, catch block
        where ever if there is an enception [thrown] put that code/ line
        like [ S.O.P (alb)) in the try block
                  attenuative solution in the catch black to handle
              The
        write
              the enception
```

- the cotch block always tollows the fing block
- If any enceptson occurs inside the try block, the control would directly go to the coatch block
- after the execution of the Corch block, The program flows normally