Exception Handling (unit-5) 2 mays for exchandling in a fun. 1) from call can be placed inside a try entite block. ?) try witch block can be placed inside a fun.) Fun inside a try catch black. 11 fun calls & placed its the s jun(0); 11 exception thousan. jumb to fun (1°), // No exception fun (100) // pris part (strird fun call) will Cout << "en sumed"; Cell CC" on call 11 << x; void fun (int x) jun (m) x)

jun (m) x)

jun def." It

jundle throw an

ex when value

explanation:

· In this case, ex will occur in second. fun call is never fun call, so the third fun call is never

. So fun call shed not be placed imide. try black ig mul fun call v made. biog the part after II fun to Call will not run.

· Initeacl the try & catch should be placed. i's the fun the itself as shown in next eq.

try & catch black inside a:

void fun (int n) y(n==0) thow 100; cotch (it x)

jun(10); //NO ex

fun(0); //ex will be there but

fun(0); it will be handled

fun(100);

// this fun Call

will also sun in this

on this eg., all the fun call will run.

So this is how try & catch shud be used w/ fun if multiple fun call needs to be made.

Restricting a fun from

· A fun can be restricted from thowing certain types of ex. certain types of ex. shis can be done by using a throw start after fun name.

eg: - Restrict a fun from throwing certain void fun () throw (int, char) fun name sherify the types of ex pat the fun is allowed to · It can't know any other exc. Ex long to restrict a fun from throwing any exc other than int & char. A void fun (int x) thow (it, chan) 11 this fun can throw only int & Char ex. if (x = =0) thow 100) ig (n == 1) thow (a); if (x==2) those p.5;//when a foot ex is though it fun can't know float exint main () int a) fun (0); fun (1); fum (2); // fun will know Eatch float Catch (int x) Catch (Chan x) Catch (flat K)

3//main ends.

· In this frog , fun will throw an ex of type Hat when fun (2) is Called.

· Moueuer me fun is restricted from prinning any ex other than int & char.

. So flat ex will not be handled.

· eventuugh there is a float catch block but it will not handle float: ex thrown by fun.

. So APT will orcer,

· Whenever a fem!) throws any ex wh. is not allowed than APT will occur.

Rethrousing an Exception

)An ex un be rethroun.

2) It is done when you want the same ex to be handled by 2 dys handless in diff ways.

3) one handler will handle vertain fart of ex & other handler will handle another part of ex-

(4) & Ex. can be rethnoun by using nested try & Catch'

5) The inner catch black will handle some fact of ex 4 it will rethrow the ex.

6) The outer eater block will handle some other part of ex. 1) so I ex will be handled 2 times

if (a = = 0) throw loo; //throw an ex. Catch (it u) Cout <<" inner Catch"; throw; // inside inner catch
the ex will be
rethroun.
// No value is sherified Catch (=+ n) 1/ rethroum ex will be caught by Cont (C" outer Catch"; Catch. 2

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