Example using exceptions

```
fun {Eval E}
   if {IsNumber E} then E
   else
        case F
        of plus(X Y) then {Eval X}+{Eval Y}
        [] times(X Y) then {Eval X}*{Eval Y}
        else raise badExpression(E) end
        end
   end
                                         The error handling code does
end
                                         not clutter up the program
try
   {Browse {Eval plus(23 times(5 5))}}
   {Browse {Eval plus(23 minus(4 3))}}
catch X then {Browse X} end
```

If we did not have exceptions...

end



```
fun {Eval E}
   if {IsNumber E} then E
   else
        case E
        of plus(X Y) then R={Eval X} in
           case R of badExpression(RE) then badExpression(RE)
           else R2={Eval Y} in
              case R2 of badExpression(RE) then badExpression(RE)
             else R+R2
             end
           end
                                        Much more code!
        [] times(X Y) then
           % ... Same code as plus
        else badExpression(E)
        end
   end
```

- In this example, 22 lines instead of 10 (more than double)
- The code is much more complicated because of all the case statements handling badExpression





 The try has an additional finally clause, for an operation that must always be executed (in both the correct and error cases):

```
FH={OpenFile "foobar"}
try
    {ProcessFile FH}
catch X then
    {Show "*** Exception during execution ***"}
finally {CloseFile FH} end % Always close the file
```