iOS session #KCLTechBuildX

# Intermediate Swift

Session 102

Mahyad

In Swift, errors are represented by values of types that conform to the "Error" protocol. This empty protocol indicates that a type can be used for error handling.



```
enum VendingMachineError: Error {
    case invalidSelection
    case insufficientFunds(coinsNeeded: Int)
    case outOfStock
  }
```



throw VendingMachineError.insufficientFunds(coinsNeeded: 5)



#### Types of Error Handling:

- propagate the error from a function
- Use do-catch block
- Assert that the error will not occur



Propagating Errors Using Throwing Functions



Propagating Errors Using Throwing Functions

func canThrowErrors() throws -> String



```
Propagating Errors Using Throwing Functions

func vend(itemNamed name: String) throws {
    guard let item = inventory[name] else {
        throw VendingMachineError.invalidSelection
    }
}
```



Do-Catch

You use a do-catch statement to handle errors by running a block of code. If an error is thrown by the code in the do clause, it is matched against the catch clauses to determine which one of them can handle the error



```
Do-Catch

do {
  try buyFavoriteSnack(...)
  } catch VendingMachineError.invalidSelection {
    print("Invalid Selection")
    }
}
```



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