Intermediate Swift programming - Control flows & Optionals

Overview

- If the text in a certain label is getting truncated, then you can change the lines =
 which will not limit the lines to 1, hence creating as many lines as required and hence not truncating the text.
- Initialization of an unused constant throws a warning asking us to replace it with
- If or else conditions are similar to Python. But we have curly braces like Java
- Operators are similar to Java
- All collections in Swift start & end in []

If - Else statements

 if or else conditions are similar to Python. But we have curly braces like Java

```
if hardness == "soft"{
  print(softTimer)
}
```

Operators are same as Java with the signs

Switch statements

Useful if we have more than 5 conditions

```
switch hardness {
  case "Soft":
    print(5)
  case "Medium":
    print(7)
  case "Hard":
    print(12)
  default:
    print("Error")
}
```

Dictionaries

- Dictionaries are similar to any programming language but with
- When a key is not present in the dictionary it returns nil

```
let eggTimes = [
    "Soft": 5,
    "Medium": 7,
    "Hard": 12
]

var dict : [String : Int] = [
    "/
    "|
    "|
]
```

Optionals!?

- This is a datatype in itself. It means that the variable can have the specific value or no value at all
- This is when a variable is uncertain.

Example - We can have a varuserName which would store the username.

When we initialize, it would contain the value nil but at a later time, it will actually store the name.

```
//Create optional
var userName: String? = nil
userName = "Eternity"

//Unwrap an optional
if userName != nil{
   var unwrapped = userName!
   print(unwrapped)
}
```

Scheduled Timer

- Selector @objc method syntax is used and the updateTimer method is passed
- timeInterval After how many seconds is the timer triggered
- repeats True to keep the timer running
- timer.invalidate() Makes the timer stop

Timer.scheduledTimer(timeInterval: 1, target: self, selector: #selector(updateTime

Note: Declaration of the timer has to be done like var countdownTimer = Timer()

Progress View

This shows the progress of an ongoing task

Important properties

- style Change it to bar to add height to the progress view
- Progress tint Color of the completed part
- 3. Track tint Color of the remaining part
- Progress This denotes the progress of the bar according to numerical values

