RxSwift Basics – Day 3

RxSwift Basics

- Day 1 Observable, Operator (Filter, Transform, Combine)
- Day 2 Subject (flatMap, flatMapFirst, flatMapLatest)
- Day 3 Two VCs communications with Subject, RxCocoa (Button)

- Day 4 Sequential, Merged Observable Calls
- Day 5 RxCocoa, UI Binding (Button, TextField, Label, TableView)

Advanced RxSwift

- Day 1 Protocol-Oriented Programming, Protocol Extension, Associatetype
- Day 2 Network Call, Generic Enum
- Day 3 Binding Track Activity (show / hide 'Loading'), Scan Operator
- Day 4 Adding a Reactive Extension to Custom UI Element,
- 2 Way Binding, Advanced TableView RxDataSources
- Day 5 Schedulers (observeOn, subscribeOn),

Unit Test (RxTest, RxBlocking)

Two VCs : delegate - 1

```
class ViewController: UIViewController {
   @IBAction func showTwoOptionsDelegateVC(_ sender: UIButton) {
       let mainStoryboard: UIStoryboard = UIStoryboard(name: "Main", bundle: nil)
       if let vc = mainStoryboard.instantiateViewController(withIdentifier: "TwoOptionsDelegateVC") as? TwoOptionsDelegateVC {
               vc.delegate = self
           self.show(vc, sender: nil)
extension ViewController:
                                    TwoOptionsDelegate {
   func optionOneSelected() {
       print("Option One Selected : TwoOptionsDelegateVC")
   func optionTwoSelected() {
       print("Option Two Selected : TwoOptionsDelegateVC")
```

Two VCs : delegate - 2

```
protocol TwoOptionsDelegate: class {
   func optionOneSelected()
   func optionTwoSelected()
class TwoOptionsDelegateVC: UIViewController {
   @IBOutlet weak var optionOneButton: UIButton!
   @IBOutlet weak var optionTwoButton: UIButton!
     weak var delegate: TwoOptionsDelegate?
....
   @IBAction func optionOneClicked(_ sender: UIButton) {
       if let _delegate = delegate {
           _delegate.optionOneSelected()
           dismiss(animated: true, completion: nil)
   @IBAction func optionTwoClicked(_ sender: UIButton) {
       if let _delegate = delegate {
           _delegate.optionTwoSelected()
           dismiss(animated: true, completion: nil)
```

Two VCs : Observable - 1

```
class ViewController: UIViewController {
   let disposeBag = DisposeBag()
   @IBAction func showTwoOptionsObservableVC( sender: UIButton) {
       let mainStoryboard: UIStoryboard = UIStoryboard(name: "Main", bundle: nil)
       if let vc = mainStoryboard.instantiateViewController(withIdentifier: "TwoOptionsObservableVC") as? TwoOptionsObservableVC {
          vc.selectedOption.subscribe(onNext: { option in
                   print("Option \(option\) Selected : TwoOptionsObservableVC")
              })
               .disposed(by: disposeBag)
          self.show(vc, sender: nil)
```

Two VCs: Observable - 2

```
class TwoOptionsObservableVC: UIViewController {
    @IBOutlet weak var optionOneButton: UIButton!
    @IBOutlet weak var optionTwoButton: UIButton!
    let disposeBag = DisposeBag()
    private let selectedOptionSubject = PublishSubject<Int>()
    var selectedOption: Observable<Int> {
        return selectedOptionSubject.asObservable()
    override func viewDidLoad() {
        super.viewDidLoad()
        let oneObservable = optionOneButton.rx.tap.map { _ in return 1 }
        let twoObservable = optionTwoButton.rx.tap.map {  in return 2 }
        Observable.of(oneObservable, twoObservable)
            .merge()
            .subscribe(onNext: { [unowned self] option in
                self.complete(action: option)
            })
            .disposed(by: disposeBag)
    func complete(action: Int) {
        dismiss(animated: true) { [unowned self] in
            self.selectedOptionSubject.onNext(action)
            self.selectedOptionSubject.onCompleted()
```



Two VCs communications using subject