```swift
//  practicecurd
//
//  Created by ENGRAVER FAMILY on 06/12/24.
//

import UIKit
import CoreData

@main
class AppDelegate: UIResponder, UIApplicationDelegate {

    var selectedindex:NSManagedObject?;

    func application(_ application: UIApplication, didFinishLaunchingWithOptions launchOptions:
        [UIApplication.LaunchOptionsKey: Any]?) -> Bool {
        // Override point for customization after application launch.
        return true
    }


    // MARK: UISceneSession Lifecycle

    func application(_ application: UIApplication, configurationForConnecting connectingSceneSession: UISceneSession,
        options: UIScene.ConnectionOptions) -> UISceneConfiguration {
        // Called when a new scene session is being created.
        // Use this method to select a configuration to create the new scene with.
        return UISceneConfiguration(name: "Default Configuration", sessionRole: connectingSceneSession.role)
    }

    func application(_ application: UIApplication, didDiscardSceneSessions sceneSessions: Set<UISceneSession>) {
        // Called when the user discards a scene session.
        // If any sessions were discarded while the application was not running, this will be called shortly after
            application:didFinishLaunchingWithOptions.
        // Use this method to release any resources that were specific to the discarded scenes, as they will not return.
    }

    // MARK: - Core Data stack

    lazy var persistentContainer: NSPersistentContainer = {
```

```swift
//
//  editVC.swift
//  practicecurd
//
//  Created by ENGRAVER FAMILY on 06/12/24.
//

import UIKit
import CoreData

class editVC: UIViewController {

    @IBOutlet weak var name: UITextField!
    @IBOutlet weak var surname: UITextField!

    var arr = [NSManagedObject]()

    let appdel = UIApplication.shared.delegate as! AppDelegate

    override func viewDidLoad() {
        super.viewDidLoad()

        name.text = appdel.selectedindex?.value(forKey: "name") as! String
        surname.text = appdel.selectedindex?.value(forKey: "surname") as! String


        // Do any additional setup after loading the view.
    }

    @IBAction func savebrn(_ sender: Any) {

        let context = appdel.persistentContainer.viewContext

        appdel.selectedindex?.setValue(name.text, forKey: "name") as? String

        appdel.selectedindex?.setValue(surname.text, forKey: "surname") as? String
```

```swift
class editVC: UIViewController {

    }


    @IBAction func savebrn(_ sender: Any) {

        let context = appdel.persistentContainer.viewContext

        appdel.selectedindex?.setValue(name.text, forKey: "name") as? String

        appdel.selectedindex?.setValue(surname.text, forKey: "surname") as? String


        do {
            try context.save()
        } catch let err as NSError {
            print(err)
        }

        self.navigationController?.popViewController(animated: true)
    }

    /*
    // MARK: - Navigation

    // In a storyboard-based application, you will often want to do a little preparation before navigation
    override func prepare(for segue: UIStoryboardSegue, sender: Any?) {
        // Get the new view controller using segue.destination.
        // Pass the selected object to the new view controller.
    }
    */

}
```

```swift
//
//  searchVC.swift
//  practicecurd
//
//  Created by ENGRAVER FAMILY on 06/12/24.
//

import UIKit
import CoreData

class searchVC: UIViewController {

    @IBOutlet weak var searchname: UITextField!
    @IBOutlet weak var display: UITextView!

    var arr = [NSManagedObject]()
    override func viewDidLoad() {
        super.viewDidLoad()

        let appdel = UIApplication.shared.delegate as! AppDelegate
        let context = appdel.persistentContainer.viewContext

        let req = NSFetchRequest<NSManagedObject>(entityName: "Student")
        // Do any additional setup after loading the view.

        do {
            try arr = context.fetch(req)
        } catch let error as NSError {
            print(error)
        }

        print(arr.count)

        // Do any additional setup after loading the view.
    }

    @IBAction func searchbtn(_ sender: Any) {
```

```swift
11   class searchVC: UIViewController {
17       override func viewDidLoad() {
34           // Do any additional setup after loading the view.
35       }
36
         @IBAction func searchbtn(_ sender: Any) {
38
39           for i in arr {
40               if (searchname.text == i.value(forKey: "name")as! String){
41                   display.text = "name :\(i.value(forKey:"name")as! String)\n age : \(i.value(forKey:"age")as! Int)"
42               }
43           }
44       }
45
46       /*
47       // MARK: - Navigation
48
49       // In a storyboard-based application, you will often want to do a little preparation before navigation
50       override func prepare(for segue: UIStoryboardSegue, sender: Any?) {
51           // Get the new view controller using segue.destination.
52           // Pass the selected object to the new view controller.
53       }
54       */
55
56   }
57
```

```swift
//
//  Second.swift
//  practicecurd
//
//  Created by ENGRAVER FAMILY on 06/12/24.
//

import UIKit
import CoreData

class Second: UIViewController, UITableViewDelegate, UITableViewDataSource{

    @IBOutlet weak var tableview: UITableView!

    var arr = [NSManagedObject]()


    override func viewDidLoad() {
        super.viewDidLoad()

        let appdel = UIApplication.shared.delegate as! AppDelegate
        let context = appdel.persistentContainer.viewContext

        let req = NSFetchRequest<NSManagedObject>(entityName: "Student")
        // Do any additional setup after loading the view.

        do {
            try arr = context.fetch(req)
        } catch let error as NSError {
            print(error)
        }

        print(arr.count)
    }

    override func viewWillAppear(_ animated: Bool) {
        tableview.reloadData()
    }
}
```

```swift
11  class Second: UIViewController, UITableViewDelegate, UITableViewDataSource{
34      }
35
36      override func viewWillAppear(_ animated: Bool) {
37          tableview.reloadData()
38      }
39
40      func tableView(_ tableView: UITableView, numberOfRowsInSection section: Int) -> Int
41      {
42          return arr.count
43      }
44
45
46      func tableView(_ tableView: UITableView, cellForRowAt indexPath: IndexPath) -> UITableViewCell
47      {
48          var cell = tableView.dequeueReusableCell(withIdentifier: "tblcell", for: indexPath) as! tblcell
49
50          var counter = arr[indexPath.row]
51          cell.name.text = counter.value(forKey: "name") as? String
52          cell.surname.text = counter.value(forKey: "surname") as? String
53          return cell
54
55      }
56
57      func tableView(_ tableView: UITableView, didSelectRowAt indexPath: IndexPath) {
58
59          let appdel = UIApplication.shared.delegate as! AppDelegate
60          let context = appdel.persistentContainer.viewContext
61
62          appdel.selectedindex = arr[indexPath.row]
63          self.performSegue(withIdentifier: "edit", sender: self)
64
65
66      }
67
68      func tableView(_ tableView: UITableView, commit editingStyle: UITableViewCell.EditingStyle, forRowAt indexPath:
            IndexPath) {
69
70          let appdel = UIApplication.shared.delegate as! AppDelegate
```

```swift
11  class Second: UIViewController, UITableViewDelegate, UITableViewDataSource{
57      func tableView(_ tableView: UITableView, didSelectRowAt indexPath: IndexPath) {
64
65
66      }
67
68      func tableView(_ tableView: UITableView, commit editingStyle: UITableViewCell.EditingStyle, forRowAt indexPath:
            IndexPath) {
69
70          let appdel = UIApplication.shared.delegate as! AppDelegate
71          let context = appdel.persistentContainer.viewContext
72
73          context.delete(arr[indexPath.row])
74          arr.remove(at: indexPath.row)
75          do {
76              try context.save()
77          } catch let error as NSError {
78              print(error)
79          }
80          tableView.reloadData();
81      }
82
83
84
85
86
87
88      /*
89      // MARK: - Navigation
90
91      // In a storyboard-based application, you will often want to do a little preparation before navigation
92      override func prepare(for segue: UIStoryboardSegue, sender: Any?) {
93          // Get the new view controller using segue.destination.
94          // Pass the selected object to the new view controller.
95      }
96      */
97
98  }
```

```swift
//
//  tblcell.swift
//  practicecurd
//
//  Created by ENGRAVER FAMILY on 06/12/24.
//

import UIKit

class tblcell: UITableViewCell {

    @IBOutlet weak var name: UILabel!
    @IBOutlet weak var surname: UILabel!
    override func awakeFromNib() {
        super.awakeFromNib()
        // Initialization code
    }

    override func setSelected(_ selected: Bool, animated: Bool) {
        super.setSelected(selected, animated: animated)

        // Configure the view for the selected state
    }

}
```

```swift
//
//  ViewController.swift
//  practicecurd
//
//  Created by ENGRAVER FAMILY on 06/12/24.
//

import UIKit
import CoreData

class ViewController: UIViewController {

    var genderMF = ""
    var stream = ""
    var ages = 0

    @IBOutlet weak var name: UITextField!
    @IBOutlet weak var surname: UITextField!
    @IBOutlet weak var age: UISlider!

    @IBOutlet weak var Stream: UISegmentedControl!
    @IBOutlet weak var gender: UISwitch!

    override func viewDidLoad() {
        super.viewDidLoad()
        // Do any additional setup after loading the view.
    }

    @IBAction func showage(_ sender: Any) {
        ages = Int(age.value)
    }
    @IBAction func showstream(_ sender: Any) {
        if (Stream.selectedSegmentIndex == 0){
            stream = "MSCIT"
        }else{
            stream = "MCA"
        }
    }
    @IBAction func showgender(_ sender: Any) {
```

```swift
class ViewController: UIViewController {
    @IBAction func showstream(_ sender: Any) {

    }
    @IBAction func showgender(_ sender: Any) {
        if (gender.isOn){
            genderMF = "MALE"
        }else{
            genderMF = "FEMALE"
        }
    }
    @IBAction func save(_ sender: Any) {


        let appdel = UIApplication.shared.delegate as! AppDelegate
        let context = appdel.persistentContainer.viewContext

        let table = NSEntityDescription.entity(forEntityName: "Student", in: context)

        let obj = NSManagedObject(entity: table!, insertInto: context)

        obj.setValue(name.text, forKey: "name")
        obj.setValue(surname.text, forKey: "surname")
        obj.setValue(ages, forKey: "age")
        obj.setValue(stream, forKey: "stream")
        obj.setValue(genderMF, forKey: "gender")

        do {
            try context.save()
        } catch let Error as NSError {
            print(Error)
        }
    }
    @IBAction func next(_ sender: Any) {
        self.performSegue(withIdentifier: "secondVC", sender: self)
    }

    @IBAction func searchbtn(_ sender: Any) {
        self.performSegue(withIdentifier: "search", sender: self)
    }
```

```swift
class ViewController: UIViewController {
    @IBAction func save(_ sender: Any) {

        let appdel = UIApplication.shared.delegate as! AppDelegate
        let context = appdel.persistentContainer.viewContext

        let table = NSEntityDescription.entity(forEntityName: "Student", in: context)

        let obj = NSManagedObject(entity: table!, insertInto: context)

        obj.setValue(name.text, forKey: "name")
        obj.setValue(surname.text, forKey: "surname")
        obj.setValue(ages, forKey: "age")
        obj.setValue(stream, forKey: "stream")
        obj.setValue(genderMF, forKey: "gender")

        do {
            try context.save()
        } catch let Error as NSError {
            print(Error)
        }
    }
    @IBAction func next(_ sender: Any) {
        self.performSegue(withIdentifier: "secondVC", sender: self)
    }

    @IBAction func searchbtn(_ sender: Any) {
        self.performSegue(withIdentifier: "search", sender: self)
    }

}
```