

НАЦІОНАЛЬНИЙ ТЕХНІЧНИЙ УНІВЕРСИТЕТ УКРАЇНИ
“КИЇВСЬКИЙ ПОЛІТЕХНІЧНИЙ ІНСТИТУТ ІМЕНІ ІГОРЯ СІКОРСЬКОГО”
Факультет інформатики та обчислювальної техніки
Кафедра обчислювальної техніки

Лабораторна робота №4
з дисципліни
“Програмування мобільних систем / Розроблення клієнтських додатків
для мобільних платформ”

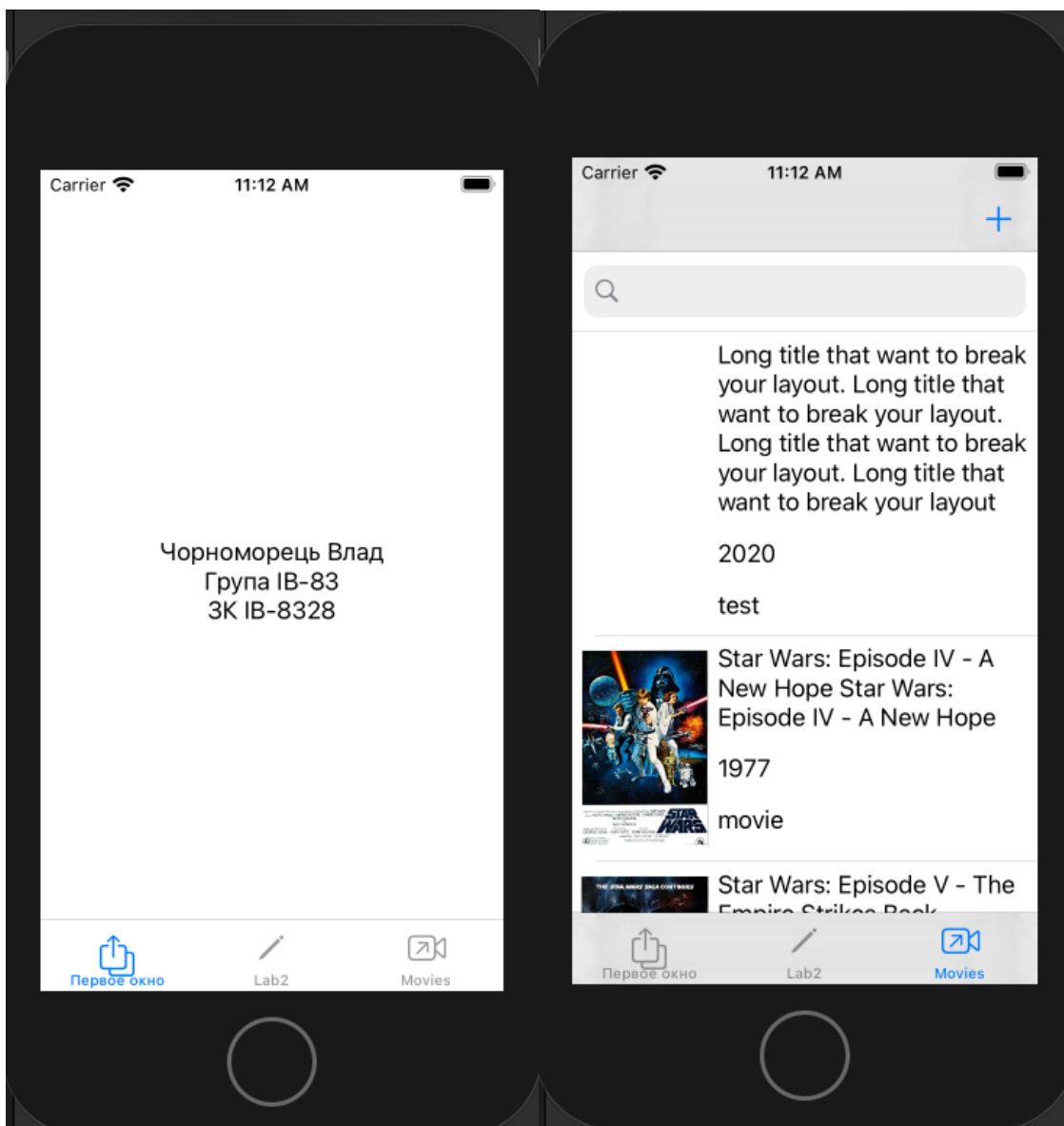
Виконав:
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Чорноморець Влад

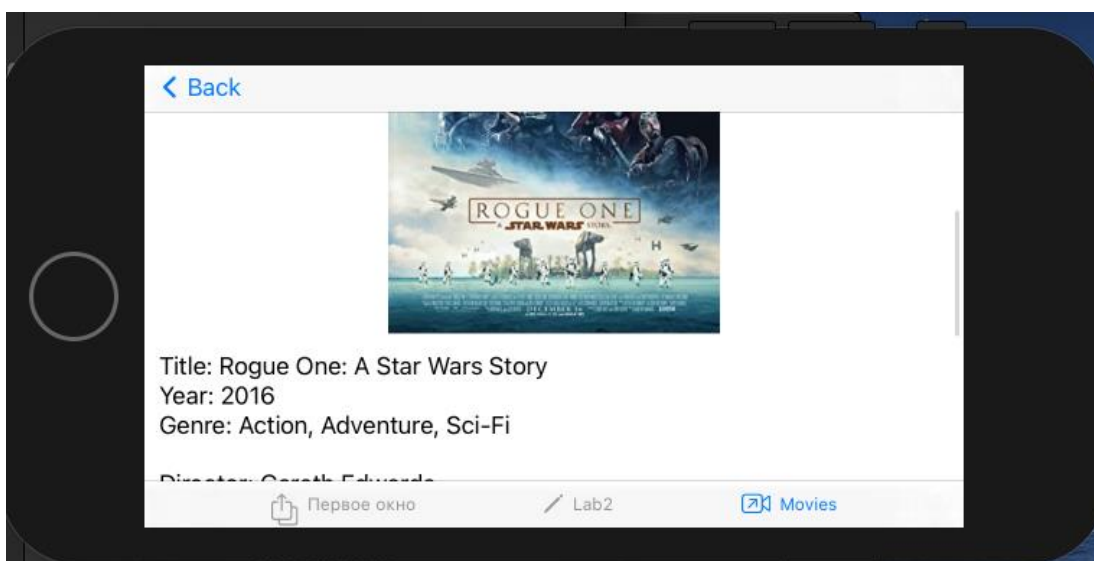
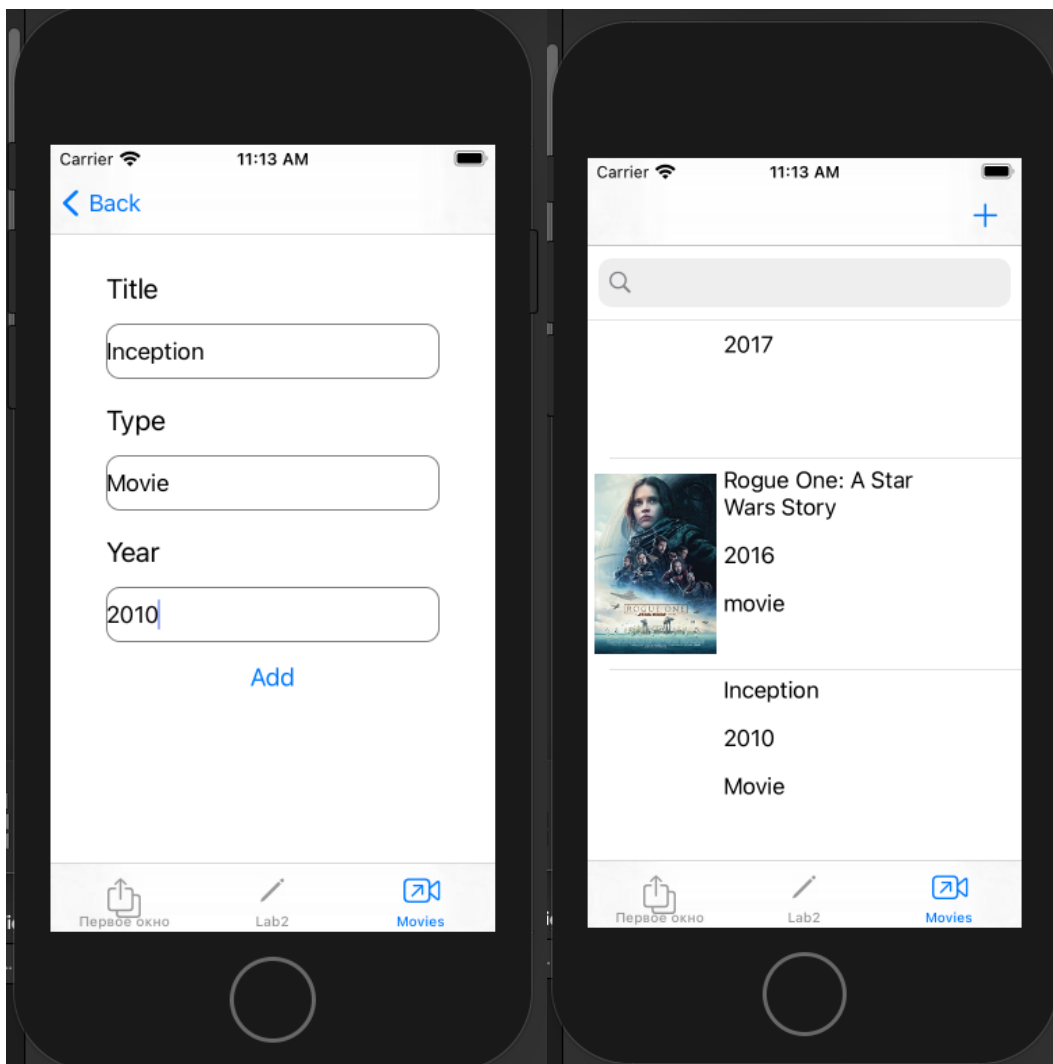
Варіант: 1

```
>>> 8328%2 + 1  
1
```

Варіант 1
Предметна область – фільми Архів для завантаження

Скріншот роботи додатка





Лістинг коду

MovieDetailsViewController.swift

```
//  
//  MovieDetailsViewController.swift  
//  LabWork1.1  
//  
//  Created by Vladislav on 09.05.2021.  
//  
  
import UIKit  
  
class MovieDetailsViewController: UIViewController {  
  
    var details: Movie?  
  
  
    @IBOutlet var poster: UIImageView!  
    @IBOutlet var movieTitle: UILabel!  
    @IBOutlet var genre: UILabel!  
    @IBOutlet var year: UILabel!  
    @IBOutlet var director: UILabel!  
    @IBOutlet var actors: UILabel!  
    @IBOutlet var country: UILabel!  
    @IBOutlet var language: UILabel!  
    @IBOutlet var production: UILabel!  
    @IBOutlet var released: UILabel!  
    @IBOutlet var runtime: UILabel!  
    @IBOutlet var awards: UILabel!  
    @IBOutlet var rating: UILabel!  
    @IBOutlet var plot: UILabel!  
  
    override func viewDidLoad() {  
        super.viewDidLoad()  
        setImageAndLabels()  
    }  
  
    func setImageAndLabels() {  
        poster.image = Manager.shared.getImage(details!.poster as NSString)  
        movieTitle.text = "Title: " + details!.title  
        year.text = "Year: " + details!.year  
        genre.text = "Genre: " + details!.genre!  
        director.text = "Director: " + details!.director!
```

```

        actors.text = "Actors: " + details!.actors!
        country.text = "Country: " + details!.country!
        language.text = "Language: " + details!.language!
        production.text = "Production: " + details!.production!
        released.text = "Released: " + details!.released!
        runtime.text = "Runtime: " + details!.runtime!
        awards.text = "Awards: " + details!.awards!
        rating.text = "Rating: " + details!.rated!
        plot.text = "Plot: " + details!.plot!
    }
}

```

AddMovieViewController.swift

```

//
//  AddMovieViewController.swift
//  LabWork1.1
//
//  Created by Vladislav on 09.05.2021.
//

import UIKit

class AddMovieViewController: UIViewController {
    var movie:Movie?

    private let scrollView: UIScrollView = {
        let scrollView = UIScrollView()
        scrollView.clipsToBounds = true
        return scrollView
    }()

    private let titleLabel: UILabel = {
        let label = UILabel()
        label.text = "Title"
        label.font = label.font.withSize(20)
        return label
    }()

    private let titleField:UITextField = {
        let field = UITextField()
        field.layer.borderWidth = 1
        field.layer.cornerRadius = 10
        field.layer.borderColor = UIColor.gray.cgColor
    }()
}

```

```
        return field
    }()
```

```
private let typeLabel: UILabel = {
    let label = UILabel()
    label.text = "Type"
    label.font = label.font.withSize(20)
    return label
}()
```

```
private let typeField: UITextField = {
    let field = UITextField()
    field.layer.borderWidth = 1
    field.layer.cornerRadius = 10
    field.layer.borderColor = UIColor.gray.cgColor
    return field
}()
```

```
private let yearLabel: UILabel = {
    let label = UILabel()
    label.text = "Year"
    label.font = label.font.withSize(20)
    return label
}()
```

```
private let yearField: UITextField = {
    let field = UITextField()
    field.layer.borderWidth = 1
    field.layer.cornerRadius = 10
    field.layer.borderColor = UIColor.gray.cgColor
    field.keyboardType = .numberPad
    field.tag = 1
    return field
}()
```

```
private let button:UIButton = {
    let button = UIButton()
    button.setTitle("Add", for: .normal)
    button.setTitleColor(.systemBlue, for: .normal)
    button.addTarget(self, action: #selector(didTapAddButton), for: .touchUpInside)

    return button
}
```

```

}()

@objc func didTapAddButton() {
    titleField.resignFirstResponder()
    yearField.resignFirstResponder()
    typeField.resignFirstResponder()

    let title = titleField.text ?? ""
    let year = yearField.text ?? ""
    let type = typeField.text ?? ""

    movie = Movie(title: title, year: year, type: type)

    performSegue(withIdentifier: "unwindToList", sender: nil)
}

override func viewDidLoad() {
    super.viewDidLoad()

    titleField.delegate = self
    yearField.delegate = self
    typeField.delegate = self

    view.backgroundColor = .white
    view.addSubview(scrollView)
    scrollView.addSubview(titleLabel)
    scrollView.addSubview(titleField)
    scrollView.addSubview(typeLabel)
    scrollView.addSubview(typeField)
    scrollView.addSubview(yearLabel)
    scrollView.addSubview(yearField)
    scrollView.addSubview(button)
    registerNotifications()
    hideKeyboard()
}

override func viewDidLoadSubviews() {
    super.viewDidLoadSubviews()
    scrollView.frame = view.bounds

    titleLabel.frame = CGRect(x: 40, y: 20, width: view.bounds.width - 80, height:
40)

    titleField.frame = CGRect(x: 40, y: titleLabel.frame.origin.y +
titleLabel.frame.height + 5, width: scrollView.bounds.width - 80, height: 40)

```

```

        titleLabel.frame = CGRect(x: 40, y: titleField.frame.origin.y +
titleField.frame.height + 10, width: scrollView.bounds.width - 80, height: 40)
        typeField.frame = CGRect(x: 40, y: titleLabel.frame.origin.y +
titleLabel.frame.height + 5, width: scrollView.bounds.width - 80, height: 40)
        yearLabel.frame = CGRect(x: 40, y: typeField.frame.origin.y +
typeField.frame.height + 10, width: scrollView.bounds.width - 80, height: 40)
        yearField.frame = CGRect(x: 40, y: yearLabel.frame.origin.y +
yearLabel.frame.height + 5, width: scrollView.bounds.width - 80, height: 40)
        button.frame = CGRect(x: scrollView.bounds.width/2 - 20, y:
yearField.frame.origin.y + yearField.frame.height + 10, width: 40, height: 30)
    }

}

```

```

extension AddMovieViewController: UITextFieldDelegate {
    func textFieldDidEndEditing(_ textField: UITextField) {
        if !textField.text!.isEmpty {
            if(textField.tag == 1) {
                if(textField.text?.rangeOfCharacter(from:
CharacterSet.decimalDigits.inverted) != nil) {
                    textField.text = ""
                }
            }
        }
    }
    func textFieldShouldReturn(_ textField: UITextField) -> Bool {
        textField.resignFirstResponder()
        return true
    }
}

```

```

extension AddMovieViewController {
    func registerNotifications() {
        NotificationCenter.default.addObserver(self, selector:
#selector(keyboardWillShow), name: UIResponder.keyboardWillShowNotification, object:
nil)

        NotificationCenter.default.addObserver(self, selector:
#selector(keyboardWillHide), name: UIResponder.keyboardWillHideNotification, object:
nil)
    }

    @objc func keyboardWillShow(notification: NSNotification) {

```



```

        if let keyboardSize =
(notification.userInfo?[UIResponder.keyboardFrameBeginUserInfoKey] as?
NSValue)?.cgRectValue {
            scrollView.contentInset = UIEdgeInsets(top: 0, left: 0, bottom:
keyboardSize.height + button.frame.maxY -
self.tabBarController!.tabBar.frame.size.height, right: 0)
            scrollView.scrollIndicatorInsets = scrollView.contentInset
        }
    }
    @objc func keyboardWillHide(notification: NSNotification) {
        scrollView.contentInset = .zero
        scrollView.scrollIndicatorInsets = scrollView.contentInset
    }

    func hideKeyboard() {
        let tap = UITapGestureRecognizer(target: self, action:
#selector(dismissKeyboard))
        tap.cancelsTouchesInView = false
        view.addGestureRecognizer(tap)
    }
    @objc func dismissKeyboard() {
        view.endEditing(true)
    }
}

```

Висновок:

В цій лабораторній роботі була доповнена робота 3. Тепер можна переглядати інформацію про фільм, можна додати свій фільм, або видалити фільм зі списку.