WORKSHOP ON SWIFT PROGRAMMING

MOBILE APPLICATION DEVELOPMENT LANGUAGE

ON 6TH OCTOBER 2017 AT SACRED HEART COLLEGE

REPORT SUBMITTED BY

I - M.Sc-CS[BOYS] DEPARTMENT OF CS DON BOSCO COLLEGE DHARMAPURI.

HOD: Are

SACRED HEART COLLEGE(AUTONOMOUS)

Workshop on SWIFT Programming

Mobile Application Development

ON 6TH OCTOBER 2017

Agenda

- Inauguration
- Workshop Begins
 - ✓ Session I
 - ✓ Session II
 - ✓ Session III
 - ✓ Session IV
 - ✓ Session V
- Valediction

INAUGURATION:

The inagural function was very simple and short for time consumption. In this inagural,

- Prayer Song
- Welcome Address

Welcome Address:

- * The Welcome Address was given by the "Principal of The Sacred Heart College".
- ❖ The Speech was very nice, motivational and useful for us.

WOKSHOP BEGINS:

- ❖ The workshop begins at 09:30 A.M. and ends at 05:00 P.M.
- This workshop has five sessions:
 - Session I
 - Session II
 - Session III
 - Session IV
 - Session V



Session - 1

- This session is handled by "Dr.A. Mckala, Asst. Professor of Sacred Heart College"
- ❖ This session is based on the "Basics of Swift"
- The topics which we have seen in this session are
 - · Swift Comments and its Types
 - Swift Datatypes
 - · Swift Variables
 - · Swift Constant
 - Swift Literals
- Some explanations of above topics are enclosed.

Session - II

- This session is handled by "Ms.Deepika Ranjan, Asst. Professor of Sacred Heart College"
- This session is based on the "Objective-C with Swift"
- The topics which we have seen in this session are
 - Operators
 - Decision Making
 - Loops
 - Strings
 - Character
 - Array
 - Dictionaries
- Some explanations of above topics are enclosed.

Session - III

- This session is handled by "Mr.T. Prabakaran, Asst. Professor of Sacred Heart College"
- This session is based on the "Developing an Apple App"
- The topics which we have seen in this session are
 - Develop a Sample Calculator App.
 - Develop a Odd or Even App.



Session - IV

- This session is handled by "Mr.V.S. Jayakumar Paul Bosco, Asst. Professor of Sacred Heart College"
- This session is based on the "Implementation of Swift"
- The topics which we have seen in this session are
 - Functions
 - Closures
 - Enumerations
 - Structures
 - Classes
 - Properties
 - Methods
- Some explanations of above topics are enclosed.

Session - V

- This session is handled by "Ms.J. Merlin Florrence, Asst. Professor of Sacred Heart College"
- This session is based on the "Classes and OOPS with Swift"
- The topics which we have seen in this session are
 - Subscript
 - Inheritance
 - Initialization
 - Deinitialization
 - Type casting
 - Extensions
 - Protocols
- Some explanations of above topics are enclosed.

VALEDICTION

The valediction function is so short and sweet. The valediction function is made up of to content namely,

DON BOSCO COLLEGE

- Certificate Distribution
- Vote of Thanks

Certificate Distribution:

> The certificates are distributed by "The Vice-Principal, Sacred Heart College".

Vote of Thanks:

> The vote of thanks given by the "Student Secretary, Dept. of Computer Apple

REPORT ENCLOSES:

- > Advertise of the Workshop
- > PowerPoint about the topics
- > Certificate Xerox
- > Permission Letter



Workshop on SWIFT Programming

Registration Form

06.10.2017

Name

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Staff/Student:

Gender

: ☐ Male ☐ Female

Course

:

Department:

Institution

Address

Tel/Mob.No

E-Mail

DD Amount

DD No & Date:

Bank



Signature

PATRON

Rev. Dr. C. Antonyraj, SDB

PRINCIPAL

Rev. Dr. D. Maria Antony Raj, SDB

ADDITIONAL PRINCIPAL

Rev.Dr.K.A.Maria Arokiaraj, SDB

HEAD

Dr. M. Maria Dominic

CONVENER

Mr. A. Selvaraj Jeyakumar

ORGANIZING COMMITTEE

Mr. R. Karthik

Mr. A. Selvaraj Jeyakumar

CONTACT

selvarajjk@shctpt.edu

(Mob.No.9524908412)

(Mob.No.9994178289)

Workshop on SWIFT Programming

6th October 2017

Venue - Carreno Hall



Mebile Application Development Language

Organized by



DEPARTMENT OF COMPUTER APPLICATIONS (UG)







Sacred Heart College (Autonomous)

Tirupattur – 635 601

Vellore District, Tamil Nadu.



BASICS OF SWIFT

Dr.A.Mekala Asst.Professor Dept of BCA

INTRODUCTION

- Swift is a new programming language developed by Apple Inc for iOS(phone) and OS X (PC) development.
- "Swift for Windows" is a free, open source tool that provide runtime environment for swift programming language to compile and run on Windows OS with graphical interface.
- Swift is easy to use and open source, so anyone with an idea can create something incredible.

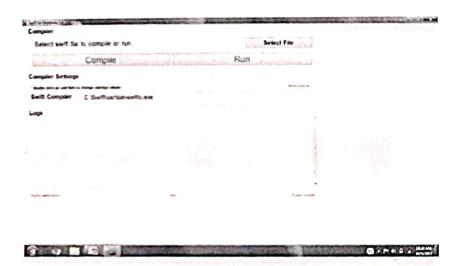


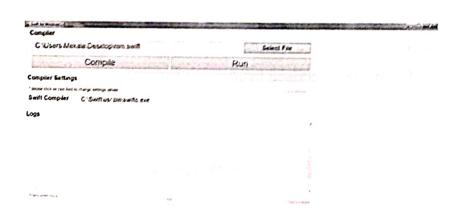
Swift. A powerful open language that lets everyone build amazing apps.

Step 1: Write a basic program in Swift with your favorite editor.

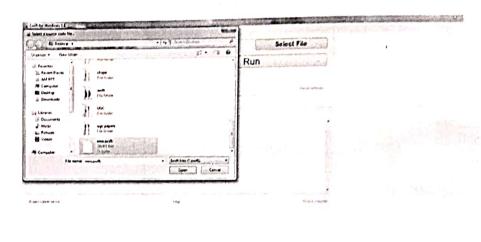
let pi = 3.14159 print(pi)

Step 6: Click select File menu





Step 7: Choose your swift file





Step 8: Click 'Compile' to compile your program.

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|---|--|--|--|
| C:\Users\Mekala\Desktop\mm.swift | | Select File | |
| Compile | | Run | |
| Compiler Settings | | | |
| "double cack on sent field to stunge sessings selves Swift Compiler C:\Swift\usnbin\swiftc | exe | Programming and the second second | |
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Example: Single Line Comment

```
//Sample program
//stores 3.14 in variable pi
let pi = 3.14159
print(pi)
```

Output:

3.14159

The above example contains two single line comment:

```
// Sample program
// stores 3.14 in variable pi
```

Example 2: Multiline comment

/* Hardcoded pi value may be less accurate.
So you can calculate using in built data types for more accurate value */

let pi = Double.pi
print(pi)

Output: 3.141

The above example contains a multiline comment.

/* Hardcoded pi value may be less accurate.

So you can calculate using in built data types for more accurate value */

Multiline Comments

- Multiline comments start with,
 - ✓ If your comment includes multiple line, you can enclose it inside /*...*/.
 - ✓ Forward-slash followed by an asterisk (/*)
 - ✓ End with an asterisk followed by a forward-slash (*/):

Semicolons in Swift Language

• However, semicolons *are* required if you want to write multiple separate statements on a single line:

```
let cat = "meow"; print(cat)
// Prints " " "
```

• If you need to add multiple statements in a single line, you must include ";" at the end of the statement.

Example 2: Integer data type

```
var highScore:Int = 100
print(highScore)
highScore = -100
print(highScore)
```

When you run the program, the output will be:

100

-100

Example: Float data type

let highScore:Float = 100.232
print(highScore)

When you run the program, the **output** will be: 100.232

Floating-Point Numbers:

- The Swift floating point data types are able to store values containing decimal places.
- **Double** stands for Double means if we want to allocate the large number with fraction value then we use Double as a float data-type.
- Floating-point numbers are numbers with a fractional component, such as 3.14159, 0.1, and -273.15.
- Double represents a 64-bit floating-point number.
- Float represents a 32-bit floating-point number.

Example: Double data type

let highScore:Double = 100.232321212121 print(highScore)

When you run the program, the **output** will be: 100.232321212121

Sacred Heart College (Autonomous)

Tirupattur, Vellore Dist, Tamil Nadu. 635601

Affiliated to Thiruvalluvar University, Accredited by NAAC (3rd Cycle) with 'A' Grade (3.43)

DEPARTMENT OF COMPUTER APPLICATIONS(UG)



the State Level Workshop on SWIFT PROGRAMMING held on 06^{th} October 2017.

4. of our

Mr. A. Selvaraj Jeyakumar

Convenor

Dr. M. Maria Dominic

Head



Dr. D. Maria Antony Raj Principal

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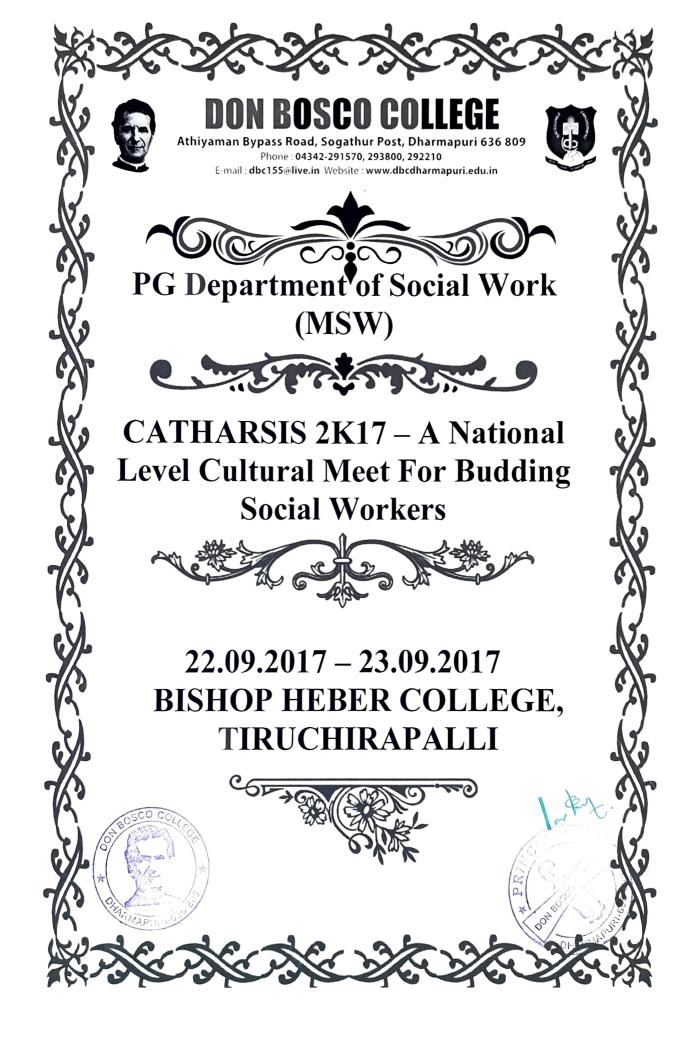
Dr. M. Maria Dominic

Head



Dr. D. Maria Antony Raj

Principal



<u>CATHARSIS 2K23 – A National Level Cultural Meet for Budding</u> Social Workers

Address of the Program:

Bishop Heber College (Autonomous), Tiruchirappalli – 620017

Date & Day of the Program:

22/09/2017 (Wednesday) - 23/09/2017 (Thursday)

Venue of the Program:

Multi-Purpose Auditorium

Time Spent:

08:30 am - 06:30 pm (10 hours)

Report of the Program:

The 1st & 2nd MSW - PG department of Social Work, Don Bosco College, Dharmapuri, has participated in the CATHARSIS which was organized by the department of Social Work, Bishop Heber College (Autonomous), Tiruchirappalli. Totally 24 of us have attended this competition (1st MSW – 12 participants; 2nd MSW – 10 participants; Staff – 2).

Participated in: Group Song, Mime, Street Play, Variety, Documentary, Quiz, Rangoli, Poster Presentation, Short Story Writing, Collage, Face Painting, Photography & Poetry Writing which are organized by Social Work trainees of Bishop Heber College (Autonomous), Tiruchirappalli. The team scored: 1st in Puppetry, 2nd in Short Story Writing and 3rd in Face Painting.

