



# SSM Institute of Engineering and Technology

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)  
Dindigul – Palani Highway, Dindigul – 624 002

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

25.05.2022

### CIRCULAR

The Department of CSE has planned to conduct a "Technology Training" for IV year - CSE students on "Advanced Java Programming" from 26.05.2022 to 03.06.2022 (09.00 a.m to 03.30 p.m ) at CSE Lab I. Resource person Mr. Ramsundar, Trainer from Silicon Software Services, Madurai is going to handle this training session. All our final year students are expected to attend this training without fail.

*[Signature]* Faculty In-charge

*[Signature]*  
HoD/CSE

1. Nivedhiha V, Asp/CSE
2. N. ANU LAVANYA, AP/CSE



**SSM**

**Institute of Engineering and Technology**

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI |

ACCREDITED BY NAAC | ACCREDITED BY NBA (EEE, ECE, MECH US PROGRAMS)

# Technology Training on **Advanced Java Programming** For Final Year Students

## DATE

MAY 22TH - June 3RD  
2022

## VENUE

CSE LAB-II

## HOST

SILICON SOFTWARE SERVICE

HOD/CSE

DR. V. SHANMUGAVEL DR. D. SENTHIL KUMARAN

PRINCIPAL

07.06.2022

From

Dr. V. Nivedhitha, Ms. N. Anu Lavanya

Associate Professor, Assistant Professor

Department of Computer Science and Engineering,

SSM Institute of Engineering and Technology,

Dindigul-02.

To

The Principal,

SSM Institute of Engineering and Technology,

Dindigul-02.

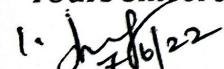
Respected sir,

**sub: Settlement to Silicon Software Services for Technology Training – reg.**

This is to bring to your notice that a Technology Training on “**Advanced Java Programming**” has been conducted for IV CSE students from **26.05.2022 to 03.06.2022(8 Days)** by **Silicon Software Services**, Madurai. 39 students of IV CSE have been benefitted from this training session. The received invoice copy is attached with this letter for your perusal and further action.

Thank You

Yours sincerely,

1.   
07/06/22

2.   
07/06/22

V. Nivedhitha  
HoD/CSE

  
PRINCIPAL

Encl:

1. Invoice from Silicon Software Services.

## **Training Plan**

### **Introduction**

**(Time: 11.30 a.m to 12.00 p.m)**

Programming language Types and Paradigms, Computer Programming Hierarchy, How Computer Architecture Affects a Language? , Why Java? , Flavors of Java, Java Designing Goal, Role of Java Programmer in Industry, Features of Java Language, JVM –The heart of Java, Java’s Magic Bytecode. The Java Environment: Installing Java, Java Program Development, Java Source File Structure, Compilation, Executions.

### **String class and its usage**

Operation on String, Mutable & Immutable String, Using Collection Bases Loop for String, Tokenizing a String, Creating Strings using StringBuffer.

### **Pointers & Array Concept**

**(Time: 1.00 p.m to 01.30 p.m)**

Defining an Array, Initializing & Accessing Array, Multi –Dimensional Array, Definition of pointer, Difference between reference and pointer,

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**TECHNOLOGY TRAINING on ADVANCED JAVA PROGRAMMING - ATTENDANCE SHEET**

**BRANCH : CSE**

**YEAR: IV**

**BATCH: 2018-2022**

**BRANCH : CSE**

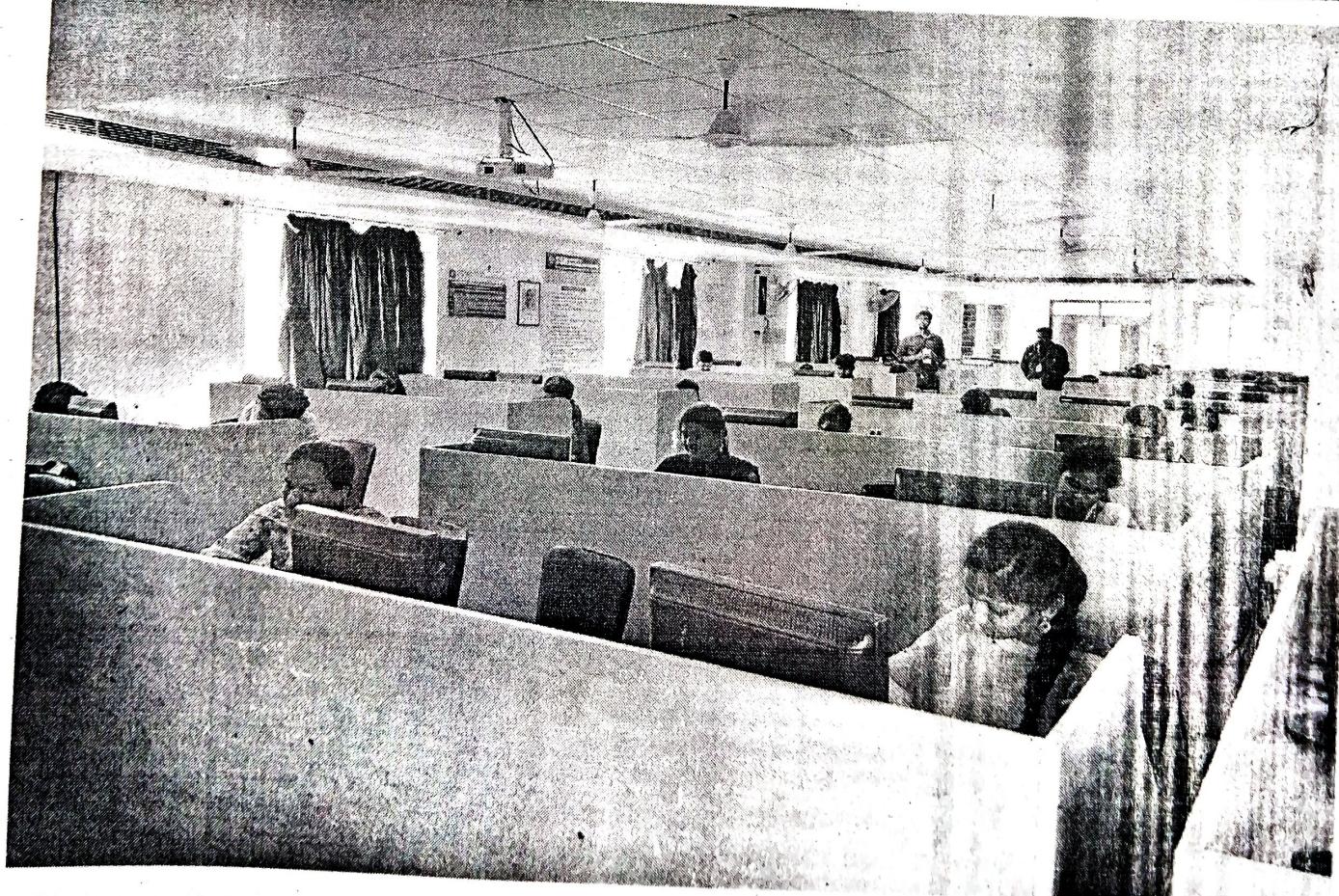
**YEAR: IV**

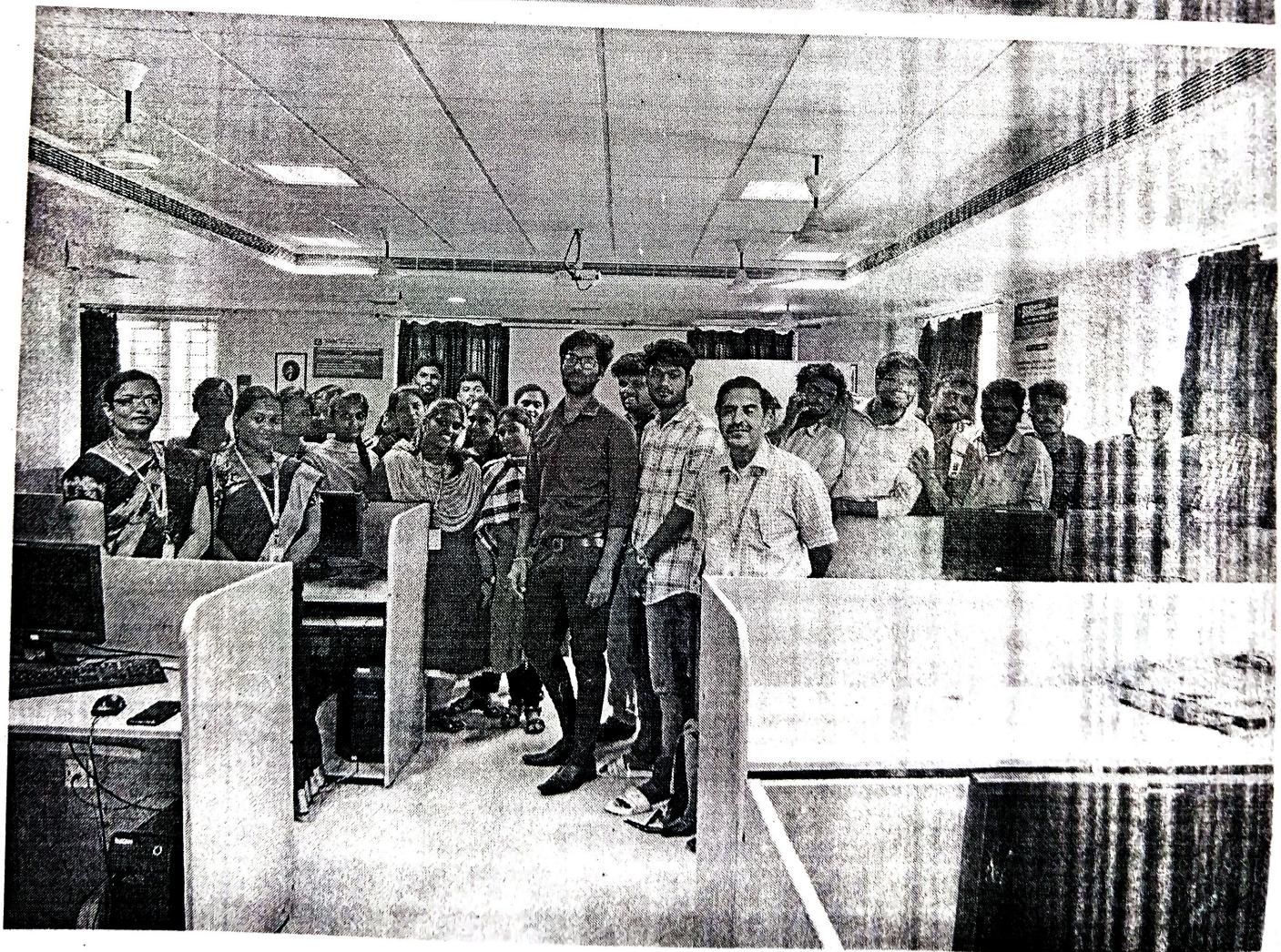
S. No.	Register Number	Name	26.5.22	27.5.22	28.5.22	30 29.5.22	30.5.22	1.6.22	2.6.22	3.6.22
			FN	AN	FN	AN	FN	AN	FN	AN
1	922118104002	BHUVANA RAJAM	AB	AB	AB	AB	AB	AB	AB	AB
2	922118104003	CHANDRA R	C1	C1	C1	C1	C1	C1	C1	C1
3	922118104005	DHANUSIYA V S	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
4	922118104006	FAHIMA RIZWANA K	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
5	922118104007	GAYATHRI R S	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
6	922118104009	HARI PRASAD M	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
7	922118104010	HINDUJA M	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
8	922118104011	INDHUMATHI M	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
9	922118104013	JANANI M	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
10	922118104014	JAYA PRIYAG	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
11	922118104015	JEGAN M	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
12	922118104016	JOAQUIN RAJ S	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
13	922118104017	JOTHIKA M	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
14	922118104018	KEERTHIKA R	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
15	922118104019	KIRTHIKAA	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
16	922118104021	KRISHNA V	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
17	922118104022	KRISHNA SREEK	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
18	922118104023	LIVIN RUTHAYA RAJ T	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
19	922118104026	NAGAMANI N	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
20	922118104028	NANDHINI T	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
21	922118104030	NAVEENDRANS	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
22	922118104031	NAVEEN KUMAR K	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
23	922118104034	POORNA KUMAR R	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
24	922118104035	PRADEEPA R	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
25	922118104037	PRIYADHARSHINI V	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
26	922118104038	PUNITH BABU M	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
27	922118104041	SAJUHARI NIKA S	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
28	922118104042	SAMRITHA ATCHAYA S	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
29	922118104043	SARANYA S	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
30	922118104044	SARAVANAKUMARAN B	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
31	922118104045	SHERLINE SNEHA M	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
32	922118104047	SRIVANI S	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
33	922118104048	SRUTHI K	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
34	922118104049	SUDHAN M	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
35	922118104050	SURIYA KUMAR V	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
36	922118104052	VIGNESH R	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
37	922118104053	VIJAY G	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
38	922118104054	VIJAYA SUBHA G	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
39	922118104055	YOGALAKSHMI B	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
		<b>Present</b>	37	37	38	38	38	37	38	37
		<b>Absent</b>	2	2	2	1	1	1	2	3
		<b>Total</b>	39	39	39	39	39	39	39	39
		<b>Nil</b>	1	1	1	1	1	1	1	1

**Ms. N. Amu Faranya  
 FACULTY IN CHARGE**

**HoD / CSE**

**Principal**







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## Department of Computer Science and Engineering

Date: 25.05.2022

### Technology Training - Demo Session

An online meeting using Google Meet has been arranged to assess the quality of the Trainers from Silicon Software Services on 25.05.2022 at Video Conference Hall, SSMIET. The details of provided below:

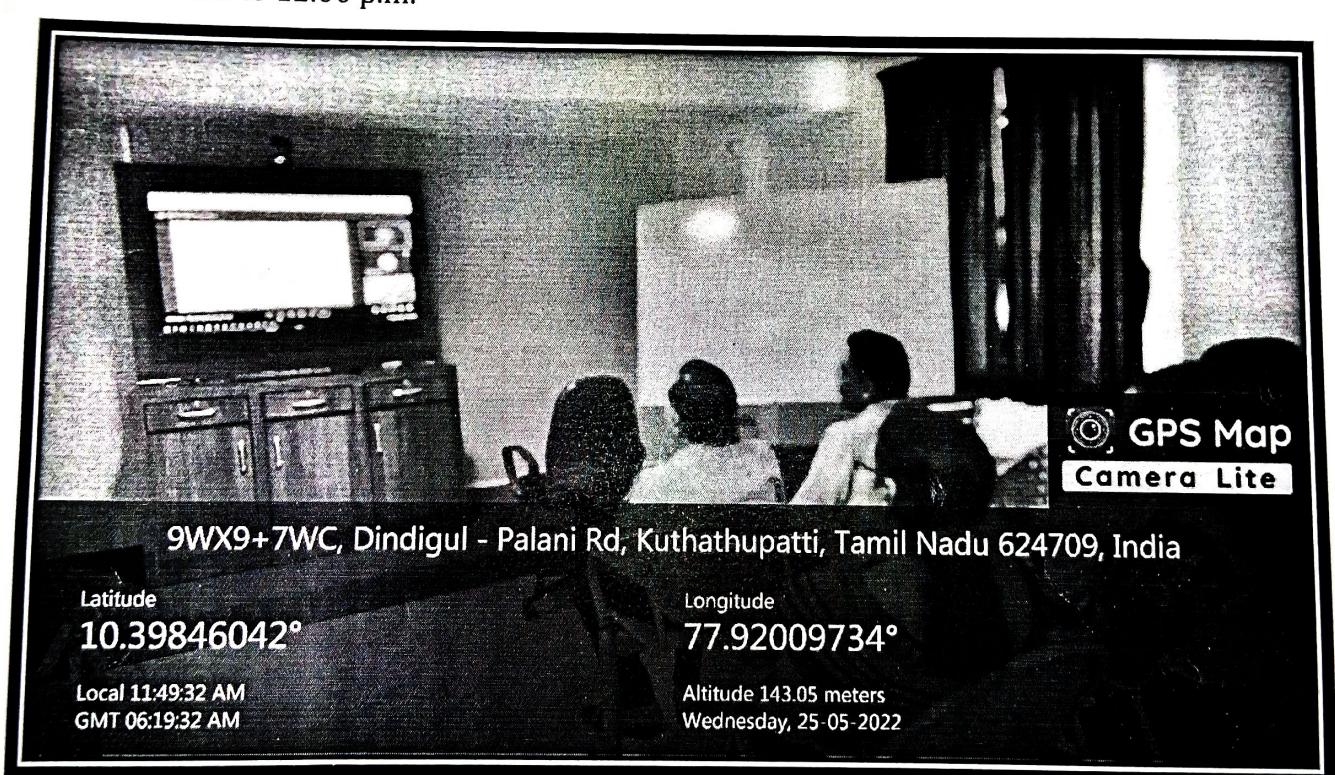
Link: <https://meet.google.com/jde-aszv-sxa>

### Technology Training on Advanced Java Programming

Name: M. Ramsundar, Trainer/Silicon Software Services

Topics Handled: String Class and its usage

Time: 11.30 a.m. to 12.00 p.m.



### Session attended by:

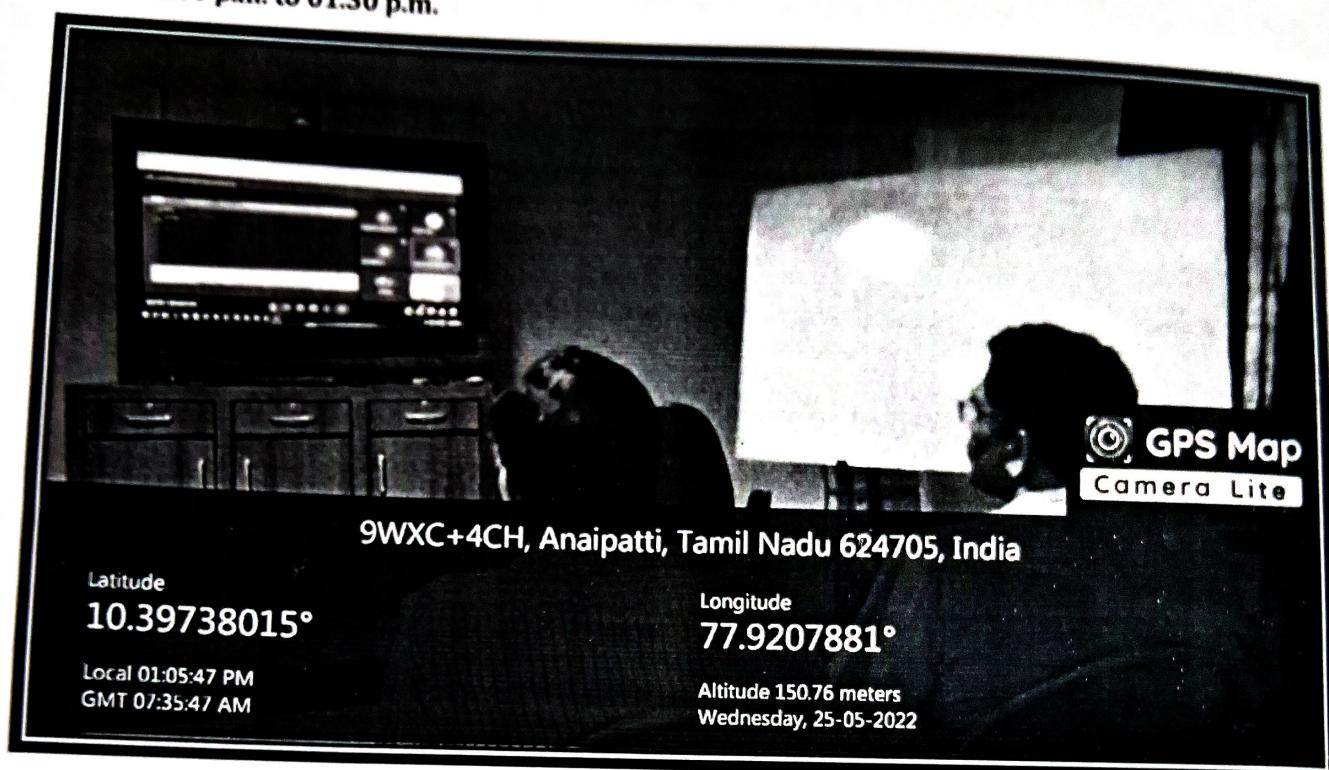
S. No.	Name	Designation
1.	Dr. V. Shunmughavel	Prof. & Head/CSE
2.	Dr. G. Prabu	AsP/CSE
3.	Dr. V. Nivedhitha	AsP/CSE
4.	Ms. S. Deepika	AP/CSE
5.	Ms. A. Priyanka	AP/CSE
6.	Ms. N. Padma Priya	AP/CSE

**Technology Training on Problem Solving Using C Programming**

Name: M. Anthony Sahaya Michael, Corporate Trainer/Silicon Software Services

Topics Handled: Pointers and Array Concepts

Time: 01.00 p.m. to 01.30 p.m.



9WXC+4CH, Anaipatti, Tamil Nadu 624705, India

Latitude

10.39738015°

Local 01:05:47 PM  
GMT 07:35:47 AM

Longitude

77.9207881°

Altitude 150.76 meters  
Wednesday, 25-05-2022

**Session attended by:**

S. No.	Name	Designation
1.	Dr. V. Shunmughavel	Prof. & Head/CSE
2.	Dr. G. Prabu	AsP/CSE
3.	Dr. V. Nivedhitha	AsP/CSE
4.	Ms. S. Deepika	AP/CSE
5.	Ms. A. Priyanka	AP/CSE
6.	Ms. N. Padma Priya	AP/CSE

**Comments and Feedback from the faculty members:**

1. Communication is good.
2. Content delivery is satisfactory.

Encl:

1. Trainers Profile



Faculty Coordinators



HoD/CSE



Principal



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Department of Computer Science and Engineering

Value Added Course (2021-2022)

## Technology Training on Advanced Java Programming for Final Year

Assessment Questions

Total: 15

### **1. How to create a new String object in Java?**

- a) new String();
- b) String.new();
- c) String{ };
- d) new Object(String);

### **2. What is the output of "Java" == "Java" in Java?**

- a) true
- b) false
- c) Compilation error
- d) Runtime error

### **3. What does the charAt method do?**

- a) Returns the character at a specific index
- b) Changes the character at a specific index
- c) Removes the character at a specific index
- d) None of the above

### **4. What will String str = null; do?**

- a) Creates a new String with no characters
- b) Creates a String pointing to "null"
- c) Does not create any String
- d) Creates an empty String

### **5. How to convert a string to upper case?**

- a) toUpperCase()
- b) upperCase()
- c) toUppercase()
- d) Uppercase()



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## 6. What does the length() method return?

- a) ASCII value of first character
- b) Number of characters
- c) A new String
- d) None of the above

## 7. Which method is used to check the equality of the content of two strings in Java?

- a) ==
- b) compareTo()
- c) equals()
- d) equalStrings()

## 8. What is the result of "Java".concat("Script")?

- a) Java Script
- b) JavaScript
- c) JavaconcatScript
- d) A compilation error

## 9. Which method replaces a character in a string?

- a) replace()
- b) replaceChar()
- c) setChar()
- d) changeChar()

## 10. Which method removes whitespace from the beginning and end of a string?

- a) trim()
- b) strip()
- c) clean()
- d) chop()

## 11. Is the String class in Java thread-safe?

- a) Yes
- b) No
- c) Only when synchronized
- d) Depends on the method being called



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Value Added Course (2021-2022)

## 12. What is the String Constant Pool in Java?

- a) A pool where all string methods are stored
- b) A special area of the heap memory where string literals are stored and reused
- c) A memory space where string objects are stored temporarily
- d) A section of the Java library dedicated to string operations

## 13. When does a string get added to the String Constant Pool?

- a) Whenever the new keyword is used
- b) Whenever a string is modified using string methods
- c) When a string literal is defined in the code
- d) Whenever a string is passed as an argument to a method

## 14. How can you ensure that a string created using the new keyword gets placed in the String Constant Pool?

- a) By appending another string to it
- b) By using the intern() method of the String class
- c) By converting it to a string literal
- d) By calling the toString() method on it

## 15. Why does Java utilize a String Constant Pool?

- a) To increase the complexity of string operations
- b) To ensure that each string object has a unique memory address
- c) To save memory by avoiding the storage of duplicate string values
- d) To improve the speed of string concatenation operations

Faculty Co-Ordinators

HoD/CSE

Principal

VAC ASSESSMENT REPORT			
S.NO.	Name	TOTAL MARKS	ASSESSMENT MARKS
1	BHUVANA RAJA M	15	15
2	CHANDRA R	15	15
3	DHANUSIYA V S	15	15
4	FAHIMA RIZWANA K	15	14
5	GAYATHRI RS	15	14
6	HARI PRA SAD M	15	15
7	HINDUJA M	15	15
8	INDHUMATHI M	15	15
9	JANANI M	15	14
10	JAYA PRIYA G	15	15
11	JEGAN M	15	15
12	JOAQUIN RAJ S	15	14
13	JOTHIKA M	15	15
14	KEERTHIKA R	15	15
15	KIRTHIKA K	15	14
16	KRISHNA V	15	15
17	KRISHNA SREE K	15	14
18	LIVIN IRUTHAYA RAJ	15	15
19	NAGAMANI N	15	14
20	NANDHINI T	15	14
21	NAVEENDRAN S	15	14
22	NAVEEN KUMAR K P	15	15
23	POORNA KUMAR P	15	15
24	PRADEEPA R	15	15
25	PRIYADHARSHINI V	15	15
26	PUNITH BABU M	15	15
27	SAJIHARINIKA S	15	15
28	SAMRITHA ATCHAYA P	15	15
29	SARANYA S	15	15
30	SARAVANAKUMARAN A	15	15
31	SHERLINE SNEHA M	15	14
32	SRI VANIS	15	14
33	SRUTHI K	15	14
34	SUDHAN M	15	15
35	SURIYA KUMAR V	15	15
36	VIGNESH R	15	15
37	VIJAY G	15	14
38	VIJAYA SUB HA G	15	15
39	YOGALAKSHMI B	15	14

Faculty Co-Ordinators

HoD/CSE



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Department of Computer Science and Engineering

Value Added Course (2021-2022)

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Total: 15

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- b) String.new(); L
- c) String{};
- d) new Object(String);

14  
~~15~~

#### 2. What is the output of "Java" == "Java" in Java?

- a) true
- b) false
- c) Compilation error ✓
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#### 3. What does the charAt method do?

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6. What does the length() method return?

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7. Which method is used to check the equality of the content of two strings in Java?

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14  
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✓

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- b) By using the intern() method of the String class
- c) By converting it to a string literal
- d) By calling the toString() method on it

### 15. Why does Java utilize a String Constant Pool?

- a) To increase the complexity of string operations
- b) To ensure that each string object has a unique memory address
- c) To save memory by avoiding the storage of duplicate string values
- d) To improve the speed of string concatenation operations



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Department of Computer Science and Engineering

Value Added Course (2021-2022)

### Technology Training on Advanced Java Programming for Final Year

Assessment Questions

Total: 15

#### 1. How to create a new String object in Java?

- a)  new String();
- b) String.new();
- c) String{};
- d) new Object(String);



#### 2. What is the output of "Java" == "Java" in Java?

- a)  true
- b) false
- c) Compilation error
- d) Runtime error



#### 3. What does the charAt method do?

- a)  Returns the character at a specific index
- b) Changes the character at a specific index
- c) Removes the character at a specific index
- d) None of the above



#### 4. What will String str = null; do?

- a) Creates a new String with no characters
- b) Creates a String pointing to "null"
- c)  Does not create any String
- d) Creates an empty String



#### 5. How to convert a string to upper case?

- a)  toUpperCase()
- b) upperCase()
- c) toUppercase()
- d) Uppercase()





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6. What does the length() method return?

- a) ASCII value of first character
- b) Number of characters ✓
- c) A new String
- d) None of the above

7. Which method is used to check the equality of the content of two strings in Java?

- a) ==
- b) compareTo()
- c) equals() ✓
- d) equalStrings()

8. What is the result of "Java".concat("Script")?

- a) Java Script
- b) JavaScript ✓
- c) JavaconcatScript
- d) A compilation error

9. Which method replaces a character in a string?

- a) replace() ✓
- b) replaceChar()
- c) setChar()
- d) changeChar()

10. Which method removes whitespace from the beginning and end of a string?

- a) trim() ✓
- b) strip()
- c) clean()
- d) chop()

11. Is the String class in Java thread-safe?

- a) Yes ✓
- b) No
- c) Only when synchronized
- d) Depends on the method being called



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### 12. What is the String Constant Pool in Java?

- a) A pool where all string methods are stored
- b) A special area of the heap memory where string literals are stored and reused
- c) A memory space where string objects are stored temporarily
- d) A section of the Java library dedicated to string operations

### 13. When does a string get added to the String Constant Pool?

- a) Whenever the new keyword is used
- b) Whenever a string is modified using string methods
- c) When a string literal is defined in the code
- d) Whenever a string is passed as an argument to a method

### 14. How can you ensure that a string created using the new keyword gets placed in the String Constant Pool?

- a) By appending another string to it
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### Feedback Form

<b>Topic</b>	Value Added course on “Advanced Java Programming”
<b>Conducted by</b>	Ms. V. Nivedhitha, AP/CSE Ms. N. Anu Lavanya, AP/CSE
<b>Target Group</b>	IV year CSE Students
<b>Date/Venue/Timing</b>	26.05.2022 – 03.06.2022/CSE LAB II/09.00 am - 03.30 pm

1. Content delivered by Resource person  
 Excellent  
 Good  
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2. Resource person's knowledge on content delivery  
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 Fair
3. Response of the resource person to students queries  
 Excellent  
 Good  
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4. Whether the session was useful  
 Excellent  
 Good  
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5. Overall experience  
 Excellent  
 Good  
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6. Suggestions/ any comments

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Signature of the participant



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Conducted by	Value Added course on “Advanced Java Programming”
Target Group	Ms. V. Nivedhitha, AP/CSE
Date/Venue/Timing	Ms. N. Anu Lavanya, AP/CSE IV year CSE Students 26.05.2022 – 03.06.2022/CSE LAB II/09.00 am - 03.30 pm

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<b>Target Group</b>	IV year CSE Students
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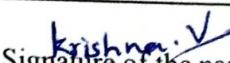
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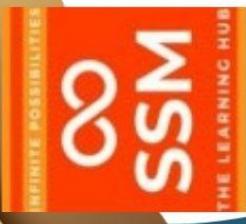
<b>Topic</b>	Value Added course on “Mongo DB”
<b>Conducted by</b>	Ms. N. Padmapriya, AP/CSE Ms. A. Priyanka, AP/CSE
<b>Target Group</b>	III year CSE Students
<b>Date/Venue/Timing</b>	25.04.2022 – 06.05.2022/CSE LAB II/09.00 am - 03.00 pm

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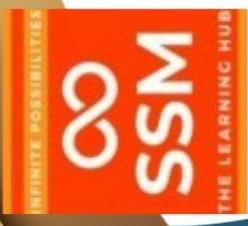


The signature of the Principal, written in black ink.

Principal  
SSMIET

The signature of the Trainer, written in black ink.  
Trainer  
Silicon Software Services

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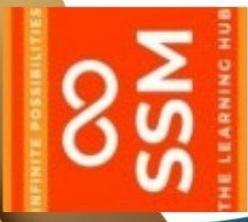
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Trainer

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A stylized signature of the word 'Principal'.

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A handwritten signature in black ink, appearing to read "Srinivas".

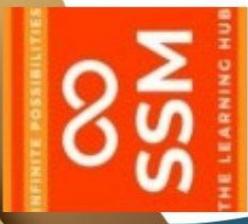
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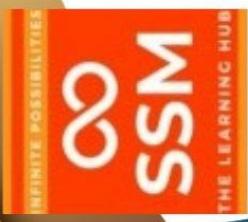
Vijay  
Trainer

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A handwritten signature in black ink that reads "Nipul".

Trainer

Silicon Software Services

A handwritten signature in black ink that reads "Principal".

SSMIET