



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 MECHANICAL ENGINEERING

Value Added Courses Summary 2021-2022

Course Name	Python Programming
Course Duration	30 hours
Year offered	II year Mechanical Students
Course Instructors	CADD Technologies School of Design Private Limited, Coimbatore
Course Outcome	1. The students with a solid foundation in Python programming and prepare them for various applications, including software development, data science, and web development. 2. Students should be able to approach problems algorithmically and implement solutions using Python. 3. Students should be capable of completion of a small project that applies Python skills to solve a real-world problem.
Course Type	Self Framed
Assessment Mode	
Attendance	30 hours
Number of Participants	58
Scheme of Exam	Evaluation test in Modeling

U.K.
Course Coordinator

[U.Kar/Rick, Ap/mech]



h
HoD/Mech.Engg



Dr.D.SENTHIL KUMARAN, M.E., P.D., (NUS)
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Palani Road, Dindigul - 624 002

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING

TECHNOLOGY TRAINING

ON



python

Programming

RESOURCE PERSON

Mr. S. PRATHEEP

Instructor

CADD Technologies School of Design Pvt Ltd
Coimbatore



06.06.2022

TO

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
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SSM Institute of Engineering and Technology
Kuttathuneri Villu

14.06.2022

Faculty Coordinator

Mr. U. Karthick

Assistant Professor

Mechanical Engineering



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Dindigul – Palani Highway, Dindigul – 624 002

Department of Mechanical Engineering

TECHNOLOGY TRAINING ON PYTHON PROGRAMMING

STUDENT NAME LIST

Year / Sem / Sec: II / IV / A Sec

Academic Year: 2021-2022 (EVEN)

S.NO	REG NO	NAME
1	922120114001	ABDUL HARSHATH A
2	922120114002	ARISHRAJAN I
3	922120114003	ARUN KUMAR G
4	922120114004	BALAMURUGAN S
5	922120114005	DANUSHMANI S
6	922120114006	DINESH S
7	922120114007	EDISON S
8	922120114008	JAIKUMAR PANDIAN J
9	922120114009	JOHNSON M
10	922120114010	KARTHICK D
11	922120114011	KARTHICK RAJA R
12	922120114012	KARTHIKEYAN N
13	922120114013	LAKSHMI N
14	922120114014	MANIKANDAN G
15	922120114015	MOHAMED RIAZ S
16	922120114016	MUTHU PRAKALATHAN V
17	922120114017	MUTHU SANTHOSH M.S
18	922120114301	ABDULHATHI A
19	922120114302	ABISHEK N
20	922120114303	ARUN KANNAN K
21	922120114304	ASWIN RAJ V
22	922120114305	BOMMURAJ K
23	922120114306	DEVAPRAKASH N
24	922120114308	DHIWAKAR C
25	922120114309	HARIHARASUDHAN M
26	922120114310	HARI PRASAD S
27	922120114311	KARTHICK S
28	922120114312	KAVINRAJ P
29	922120114313	KOWSHIK BALAJI S

U.147
Staff i/c
02/06/2022

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Department of Mechanical Engineering TECHNOLOGY TRAINING ON PYTHON PROGRAMMING STUDENT NAME LIST

Year / Sem / Sec: II / IV / B Sec

Academic Year: 2021-2022 (Even Sem)

S.NO	REG NO	NAME
1	922120114018	NAWFUL GHIYAS M
2	922120114019	NITHESH S
3	922120114020	NITHIS KUMAR J
4	922120114021	PRABAKARAN M
5	922120114022	RAJARAJESHWARAN S
6	922120114023	RAJASEKARAN V
7	922120114024	RAJESH B
8	922120114025	SANJAY KUMAR S
9	922120114026	SANMUGAPANDI M
10	922120114027	SANTHOSH KUMAR M
11	922120114028	SARAVANA PANDI P
12	922120114029	SIVARAMAN S
13	922120114030	SUGAN B
14	922120114031	TAMIL SELVAN S
15	922120114032	VASANTH R
16	922120114033	VIDYASARAN P
17	922120114314	LOKESH VARMA D
18	922120114316	MAUREESH K V R
19	922120114317	NAVIN JOE J
20	922120114318	PRASANNAKUMAR S
21	922120114319	RAJKUMAR P
22	922120114320	RAMKUMAR P R
23	922120114321	SABARINATHAN S
24	922120114322	SACHIITHIANANTHAM M
25	922120114323	SANTHOSH KANNAN R
26	922120114324	SIVAYOGAPRABHU V
27	922120114325	SRIKRISHNA R
28	922120114326	VENGADESH V
29	922120114327	VISHVA G

Staff V/c

HoD/ MECH



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Dr D Senthil Kumar M.E., Ph.D., (MUS)

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13.3.2022	12.3.2022
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10.3.2022	9.3.2022
9.3.2022	8.3.2022
8.3.2022	7.3.2022
7.3.2022	6.3.2022
6.3.2022	5.3.2022
5.3.2022	4.3.2022
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3.3.2022	2.3.2022
2.3.2022	1.3.2022
1.3.2022	28.2.2022
28.2.2022	27.2.2022
27.2.2022	26.2.2022
26.2.2022	25.2.2022
25.2.2022	24.2.2022
24.2.2022	23.2.2022
23.2.2022	22.2.2022
22.2.2022	21.2.2022
21.2.2022	20.2.2022

S.No.	Reg.no.	Student Name	F-N	A-R	F-N	A-N	F-N	A-N	F-N	A-N	F-N	A-N	F-N	A-N	F-N	A-N
1.	922120114001	ABDUL HARSHATH A	Abdul	Harshath	Abdul	Harshath	Abdul	Harshath	Abdul	Harshath	Abdul	Harshath	Abdul	Harshath	Abdul	Harshath
2.	922120114002	ARISHRAJAN I	Arishrajan	I	Arishrajan	I	Arishrajan	I	Arishrajan	I	Arishrajan	I	Arishrajan	I	Arishrajan	I
3.	922120114003	ARUN KUMAR G	Arun	Kumar	G	Arun	Kumar	G	Arun	Kumar	G	Arun	Kumar	G	Arun	Kumar
4.	922120114004	BALAMURUGAN S	Balamurugan	S	Balamurugan	S	Balamurugan	S	Balamurugan	S	Balamurugan	S	Balamurugan	S	Balamurugan	S
5.	922120114005	DANUSHMANI S	Danushmani	S	Danushmani	S	Danushmani	S	Danushmani	S	Danushmani	S	Danushmani	S	Danushmani	S
6.	922120114006	DINESH S	Dinesh	S	Dinesh	S	Dinesh	S	Dinesh	S	Dinesh	S	Dinesh	S	Dinesh	S
7.	922120114007	EDISON S	Edison	S	Edison	S	Edison	S	Edison	S	Edison	S	Edison	S	Edison	S
8.	922120114008	JAIKUMAR PANDIAN J	Jaikumar	Pandian	J	Jaikumar	Pandian	J	Jaikumar	Pandian	J	Jaikumar	Pandian	J	Jaikumar	Pandian
9.	922120114009	JOHNSON M	Johnson	M	Johnson	M	Johnson	M	Johnson	M	Johnson	M	Johnson	M	Johnson	M
10.	922120114010	KARTHICK D	Karthick	D	Karthick	D	Karthick	D	Karthick	D	Karthick	D	Karthick	D	Karthick	D
11.	922120114011	KARTHICK RAJA R	Karthick	Raja	R	Karthick	Raja	R	Karthick	Raja	R	Karthick	Raja	R	Karthick	Raja
12.	922120114012	KARTHIKEYAN N	Karthikeyan	N	Karthikeyan	N	Karthikeyan	N	Karthikeyan	N	Karthikeyan	N	Karthikeyan	N	Karthikeyan	N
13.	922120114013	LAKSHMI N	Lakshmi	N	Lakshmi	N	Lakshmi	N	Lakshmi	N	Lakshmi	N	Lakshmi	N	Lakshmi	N
14.	922120114014	MANIKANDAN G	Manikandan	G	Manikandan	G	Manikandan	G	Manikandan	G	Manikandan	G	Manikandan	G	Manikandan	G
15.	922120114015	MOHAMED RIAZ S	Mohamed	Riaz	S	Mohamed	Riaz	S	Mohamed	Riaz	S	Mohamed	Riaz	S	Mohamed	Riaz
16.	922120114016	MUTHU PRAKALATHAN V	Muthu	Prakalathan	V	Muthu	Prakalathan	V	Muthu	Prakalathan	V	Muthu	Prakalathan	V	Muthu	Prakalathan
17.	922120114017	MUTHU SANTHOSH M. S	Muthu	Santhosh	M. S	Muthu	Santhosh	M. S	Muthu	Santhosh	M. S	Muthu	Santhosh	M. S	Muthu	Santhosh
18.	922120114018	NAWFUL GHIYAS M	Nawful	Ghiyas	M	Nawful	Ghiyas	M	Nawful	Ghiyas	M	Nawful	Ghiyas	M	Nawful	Ghiyas
19.	922120114019	NITESH S	Nitesh	S	Nitesh	S	Nitesh	S	Nitesh	S	Nitesh	S	Nitesh	S	Nitesh	S
20.	922120114020	NITHIS KUMAR J	Nithis	Kumar	J	Nithis	Kumar	J	Nithis	Kumar	J	Nithis	Kumar	J	Nithis	Kumar
21.	922120114021	PRABAKARAN M	Prabakaran	M	Prabakaran	M	Prabakaran	M	Prabakaran	M	Prabakaran	M	Prabakaran	M	Prabakaran	M
22.	922120114022	RAJARAJESHWARAN S	Rajarajeswaran	S	Rajarajeswaran	S	Rajarajeswaran	S	Rajarajeswaran	S	Rajarajeswaran	S	Rajarajeswaran	S	Rajarajeswaran	S
23.	922120114023	RAJASEKARAN V	Rajasekaran	V	Rajasekaran	V	Rajasekaran	V	Rajasekaran	V	Rajasekaran	V	Rajasekaran	V	Rajasekaran	V
24.	922120114024	RAJESH B	Rajesh	B	Rajesh	B	Rajesh	B	Rajesh	B	Rajesh	B	Rajesh	B	Rajesh	B
25.	922120114025	SANJAY KUMAR S	Sanjay	Kumar	S	Sanjay	Kumar	S	Sanjay	Kumar	S	Sanjay	Kumar	S	Sanjay	Kumar
26.	922120114026	SANMUGAPANDI M	Sanmugapandi	M	Sanmugapandi	M	Sanmugapandi	M	Sanmugapandi	M	Sanmugapandi	M	Sanmugapandi	M	Sanmugapandi	M
27.	922120114027	SANTHOSH KUMAR M	Santhosh	Kumar	M	Santhosh	Kumar	M	Santhosh	Kumar	M	Santhosh	Kumar	M	Santhosh	Kumar
28.	922120114028	SARAVANA PANDIP	Saravana	Pandip		Saravana	Pandip		Saravana	Pandip		Saravana	Pandip		Saravana	Pandip
29.	922120114029	SIVARAMAN S	Sivaraman	S	Sivaraman	S	Sivaraman	S	Sivaraman	S	Sivaraman	S	Sivaraman	S	Sivaraman	S
30.	922120114030	SUGAN B	Sugan	B	Sugan	B	Sugan	B	Sugan	B	Sugan	B	Sugan	B	Sugan	B
31.	922120114031	TAMIL SELVAN S	Tamil	Selvan	S	Tamil	Selvan	S	Tamil	Selvan	S	Tamil	Selvan	S	Tamil	Selvan

1. Introduction:

The Python Programming training was conducted on [06.06.2022 to 14.06.2022] at C-205 CAD Lab. The objective of the training was to equip participants with essential skills and knowledge in Python programming, covering both fundamental concepts and advanced topics.

2. Training Objectives:

- ✓ The primary objectives of the training were as follows:
- ✓ Provide a comprehensive understanding of Python programming language.
- ✓ Equip participants with practical skills in Python development.
- ✓ Introduce participants to best practices and coding conventions in Python.
- ✓ Explore advanced topics such as data manipulation, web development, and automation using Python.

3. Training Agenda:


The training agenda was designed to cover a wide range of topics, catering to participants with varying levels of experience in Python. The key sessions included:

- ✓ Introduction to Python: Basics and Syntax
- ✓ Data Types and Structures in Python
- ✓ Functions and Modules
- ✓ Object-Oriented Programming (OOP) in Python
- ✓ File Handling and Exception Handling
- ✓ Introduction to Python Libraries (e.g., NumPy, Pandas)
- ✓ Web Development with Flask
- ✓ Automation and Scripting
- ✓ Best Practices and Coding Standards

4. Training Methodology:

The training employed a mix of lectures, hands-on coding exercises, and real-world projects to ensure a comprehensive learning experience. Participants were encouraged to actively engage in coding exercises and collaborative projects, fostering a practical understanding of Python concepts.




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5. Training Resources:

Participants were provided with a comprehensive training manual containing lecture notes, code samples, and references to online resources. Additionally, access to relevant Python documentation, tutorials, and recommended reading materials was made available to support self-paced learning.

6. Trainer Profile:

Mr. S. Pratheep, the distinguished professional who conducted the training, is an individual of considerable expertise and experience in the realm of Python development. His background as an experienced Python developer has equipped him with a wealth of knowledge and practical insights that he seamlessly integrated into the training program.

As an accomplished practitioner in the field, Mr. Pratheep possesses a deep understanding of the intricacies of Python programming. This expertise was evident throughout the training sessions, where he not only elucidated theoretical concepts but also enriched the learning experience by weaving in real-world examples. By drawing upon his own experiences and showcasing practical applications of Python in various scenarios, Mr. Pratheep bridged the gap between theory and practical implementation.

The inclusion of real-world examples served to illustrate the relevance and applicability of Python in professional settings. Participants were not only exposed to the syntax and constructs of the language but were also guided through the thought processes and problem-solving approaches employed by an industry expert. This methodology not only facilitated a more profound understanding of Python but also inspired a sense of confidence among the participants, knowing that they were learning from someone with hands-on experience in the field.

7. Participant Feedback:

Feedback from participants was overwhelmingly positive. Participants expressed satisfaction with the clarity of explanations, the relevance of the topics covered, and the hands-on nature of the training. Many highlighted the practical projects as particularly beneficial in applying their newfound Python skills.



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8. Challenges and Solutions:

While the training was overall successful, some participants faced challenges in grasping certain advanced concepts. To address this, additional one-on-one sessions were arranged, and supplementary materials were provided to support individual learning needs.

9. Recommendations:

- ✓ Based on the feedback and observations, the following recommendations are made for future Python programming training sessions:
- ✓ Incorporate more advanced projects to challenge participants and deepen their understanding.
- ✓ Provide access to a dedicated online forum or community for post-training support and networking.
- ✓ Consider extending the training duration to allow for more in-depth exploration of advanced topics.

10. Conclusion:

The Python Programming training proved to be a valuable learning experience for participants, equipping them with practical skills and knowledge applicable to various domains. The success of the training highlights the growing demand for Python proficiency in the technology industry.



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Glimpses of Technology Training



Dr. D. Senthil Kumar

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Anaipatti, Tamil Nadu, India

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624705, India

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Long 77.919904°

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DEPARTMENT OF MECHANICAL ENGINEERING

Student Name: J. Abhin Joe
Department: MECHANICAL
Year / Section: 11 year - B'
Subject: Python Programming

16
50

W

Answer all the questions.

- Which is not a feature of Python language?
A. Interpreted language.
B. Portable
C. High level language
☒ D. Case Insensitive
- Python is a object-oriented programming language.
A. Special purpose
☒ B. General purpose
C. Medium level programming language
D. All of the mentioned above
- What is the output in python language?
Round (.4)-Round (-.5)
A. 0
☒ B. 1
C. 2
D. 9
- Which are the application areas of Python programming?
A. Web Development
B. Game Development
C. Artificial Intelligence and Machine Learning
☒ D. All of the above
- What is output in python?
`print(r"\nhi")`
A. hi
B. new line and hi
C. error
☒ D. \nhi
- What is output for below code?

a=2

b=3

print(a,b)

a,b=b,a

print(a,b)

A. 23,23



2021

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- ☒ B. 23 32
C. 32 32
D. None of Above
7. Which types of logical operators in Python?
A. AND
B. OR
C. NOT
☒ D. All of the above
8. What is the name of the operator ** in Python?
A. Exponentiation
B. Modulus
C. Floor division
D. None of the these
9. What is the extension of Python Program?
A. .execute python
B. .python
☒ C. .py
D. .run python
10. What is the maximum possible length of an identifier?
A. 31 characters
☒ B. 63 characters
C. 79 characters
D. 69 characters
11. Python Dictionary is used to store the data in
A. Key value pair
B. set value pair
☒ C. tuple value pair
D. None of the above
12. Single line comment in python?
A. /
☒ B. //
C. #
D. !

13. What is the output of below code?

```
print(2**3 + (2+ 6)**(1 + 1))
```

- ☒ A. 72
B. 18
C. 22
D. None of Above



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14. Which arithmetic operators can not use with strings?

✓A-

B. +

C.*

D. None of them

15. In Python, the break and continue statements, together which are called....

A₂. Jump

Б. goto

C. compound

D. break

16. What is the data type of following object?

A=[5,'abc',3,2,6]

A. Tuple

B. Array

A. List

D. Dictionary

17.  **immediately terminates a loop entirely.**

✓ A. Break

B. Continue

C. Pass

D. None of these

18. Identity the correct function header.

A. `def fun(a=2,b=3,c)`

B. `def fun(a=2,b,c=3)`

~~C. def fun (a,b=2,c=3)~~

D. `def fun(a,b,c=3,d)`

19. In which language is Python written?

A. C.

B. C++

C. Java

D. None of these

20. What is the full form of CSV?

A. Comma Separation Value

B. Comma Separated Variable

C. Comma Separated Values

D. Common Syntax Value





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Dindigul - Palani Highway, Dindigul 624 002

DEPARTMENT OF MECHANICAL ENGINEERING

Student Name: M. Sanmugapandi

Department: Mechanical

Year / Section: II - B

Subject: Python Programming


16
20

Answer all the questions.

1. Which is not a feature of Python language?
 - A. Interpreted language.
 - B. Portable
 - C. High level language
 - D. ☒ Case Insensitive
2. Python is a object-oriented programming language.
 - A. Special purpose
 - B. General purpose
 - C. Medium level programming language
 - D. ☒ All of the mentioned above
3. What is the output in python language?
Round (.4)-Round (-.5)
 - A. 0
 - B. ☒ 1
 - C. 2
 - D. 9
4. Which are the application areas of Python programming?
 - A. Web Development
 - B. ☒ Game Development
 - C. Artificial Intelligence and Machine Learning
 - D. All of the above
5. What is output in python?
print(r"\nhi")
 - A. hi
 - B. new line and hi
 - C. error
 - D. ☒ \nhi
6. What is output for below code?

```
a=2
b=3
print(a,b)
a,b=b,a
print(a,b)
```




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- B. 23 32
C. 32 32
D. None of Above

A. AND
B. OR
C. NOT
D. All of the above

A. Exponentiation
B. Modulus
C. Floor division
D. None of the these

A. .execute python
B. .python
C. .py
D. .run python

A. 31 characters
B. 63 characters
C. 79 characters
D. 69 characters

☒ A. Key value pair
☐ B. set value pair
☐ C. tuple value pair
☐ D. None of the above

A. /
B. //
~~C. #~~
D. !

`print(2**3 + (2+6)**(1+1))`

A. 72
B. 18
C. 22
D. None of Above





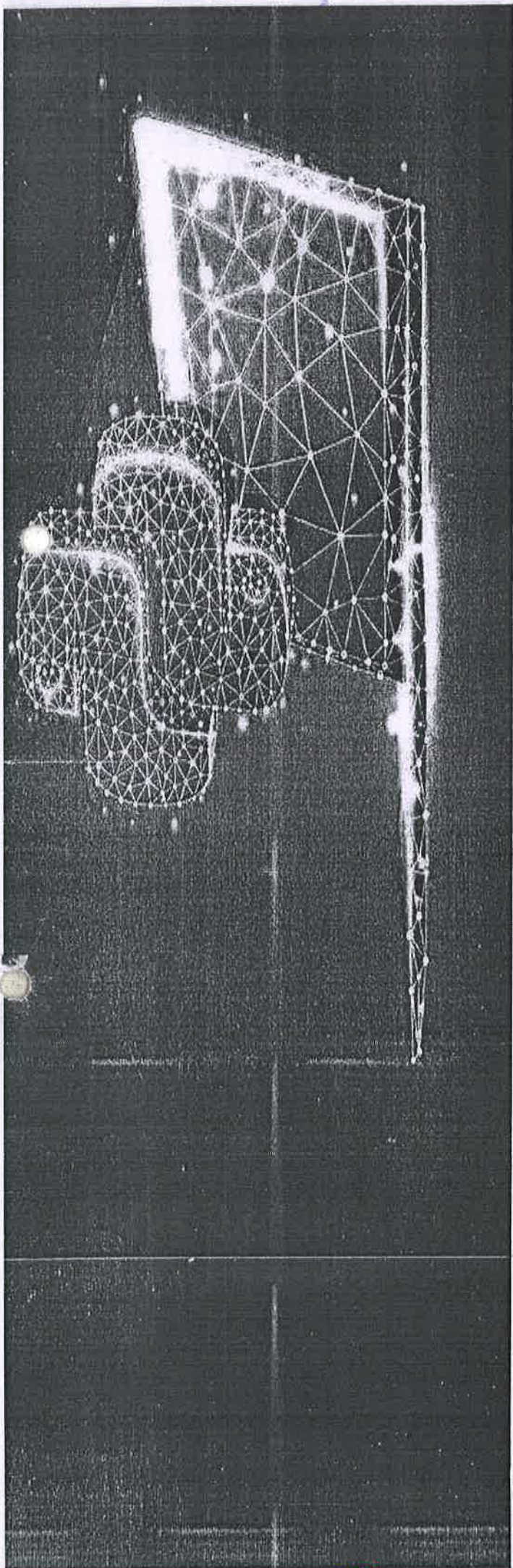
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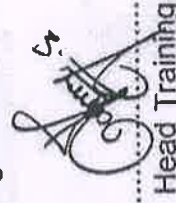
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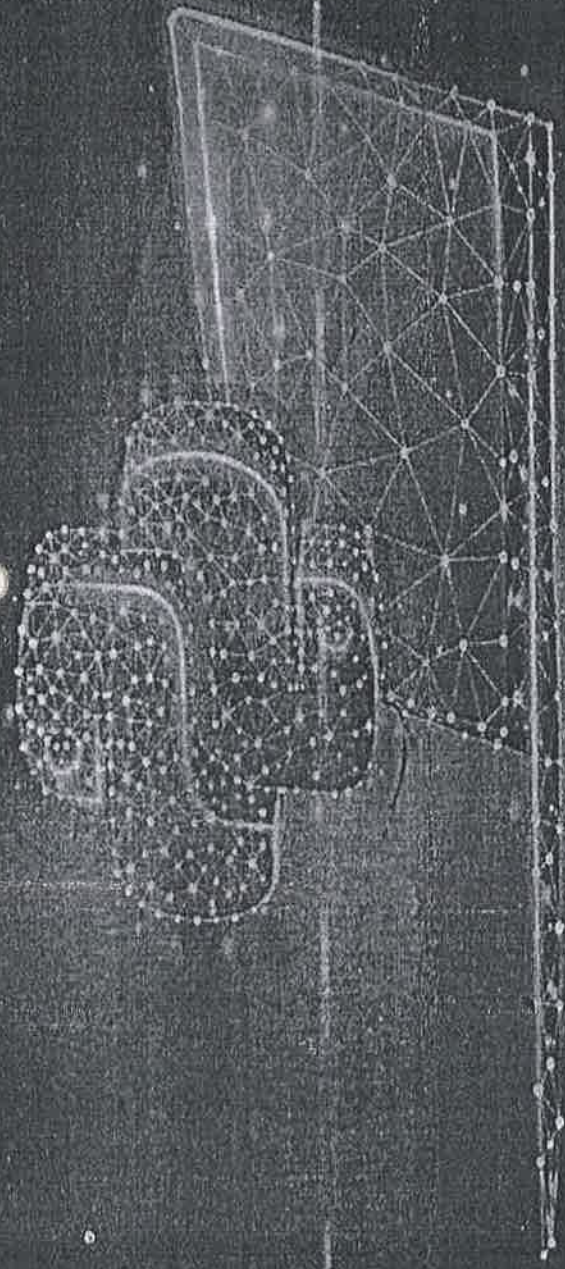
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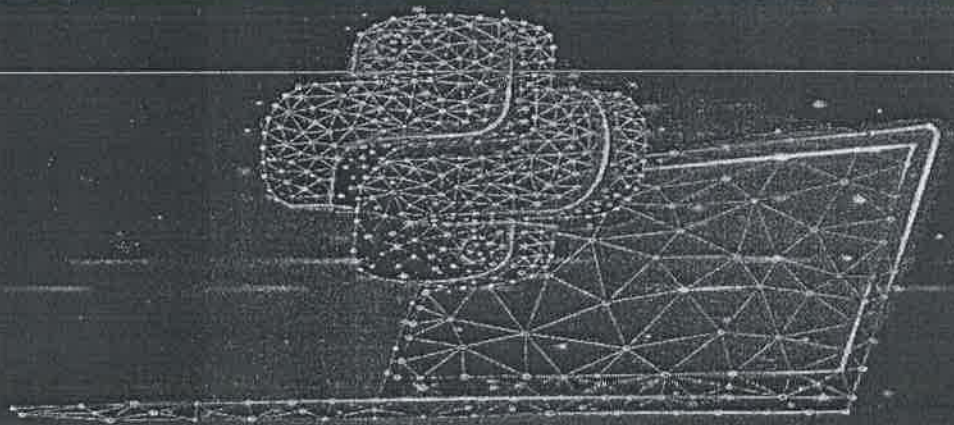
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KARTHICK RAJA R
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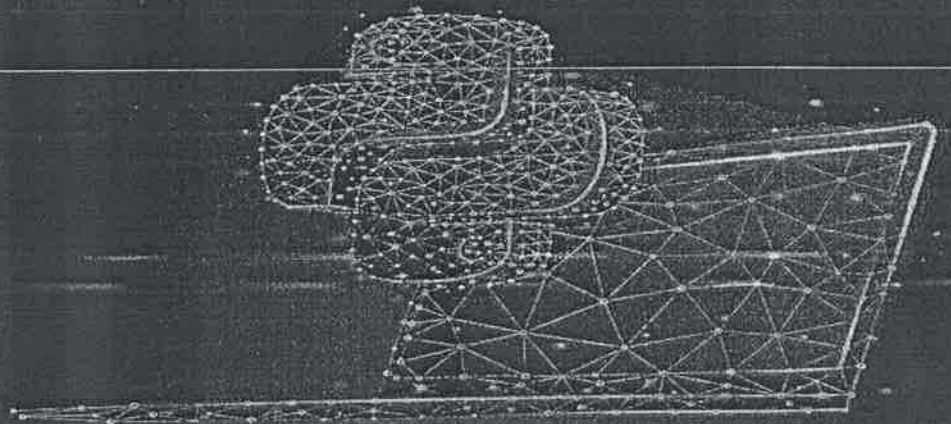
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VENGADESH V
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