5th February, 2024 [Day 1]

08 February 2024

08 February 2		2024 [[Jay 2j													
<u>PYTHON</u>													CTION	-		_
• Set is	an unord	ered data			maintain		of insertic	n, may or	may not r	esemble i	nput	# 10 mm	PointsPytho			
• List d	enoted as	[, , ,] is a	n ordered	l data stru	cture											
♦ Sorti	ng is the r	earrangen	nent of nu	mbers in a	a logical or	der										
— retur	ns None s	ince new l	ist was no	t created			a new soi		rs.			L.				
	rse works						s string, w			uences lik	e lists, mo	dify origir	al, returns	s None[sin	ce new lis	st
♦ Reverse		not work	directly or	n integers[exception	of type ei	ror], work	s on muta	bles, retur	ns an iter	ator[mear	ing index,	or sequer	ice of iten	ns], only li	is
	[for loop]															
for is a				er												
		nder*10+	quotient													

9th February, 2024 [Day 3{Hackathon}]

08 February 2024

12th February, 2024 [Day 4]

08 February 2024



Title

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Homework: **Today's Topics:**

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Important Points:



Lecture Topic:

During the lecture, take notes here. Insert a sub-page for each lecture topic.

Summary

After the lecture, use this space to summarize the main points of this Lecture Topic.

Title

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Today's Topics:

Announcements:

Homework:

•

•

Lecture Topic:

During the lecture, take notes here.

- •
- •

Summary

After class, use this space to summarize the main points of this Lecture Topic.

- •
- •

Study Questions

After the lecture, create questions based on the notes.



Lecture Topic:

During the lecture, take notes here.

Summary

After the lecture, summarize the main points of this lecture topic.

- •
- •

Title

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Important Dates:

•

Today's Topics:

Important People:

•

Lecture Topic:

During the lecture, take notes here.

Summary

After the lecture, summarize the main points of this lecture topic.

- •
- •

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12th February, 2024[Day 4{Hackathon discussion}]

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Python

- → Arrays:
 - Arrays are a collection of data of similar or different data types in python at most 2 datatypes
 - We use array('I', [1,2,3])



PATTERNS in **Python**

- ▶ Patterns are a way to understand loops
- ► Pattern follows certain rules and then prints accordingly

GIT STEPS

- 1. Git init
- 2. Git add .
- 3. Git commit -m "some random message"
- 4. Git branch -M main
- 5. Git remote add origin
- 6. Git push -u origin main

DICTIONARY IN PYTHON

- \rightarrow [a,10] means a=10
- → We use maps/dictionary so as to use only that much memory as much is required
- ightarrow Space complexity is utilised and time complexity too over list
- → Less storage required
- \rightarrow It is unordered and mutable by default
- → It is heterogeneous, key and value pair
- \rightarrow Can have dictionary in a dictionary
- \rightarrow Concurrent modifications are not allowed

Default dictionary needs to know its datatype beforehand

Ordered dictionary in python

16th February,2024[Day 6]

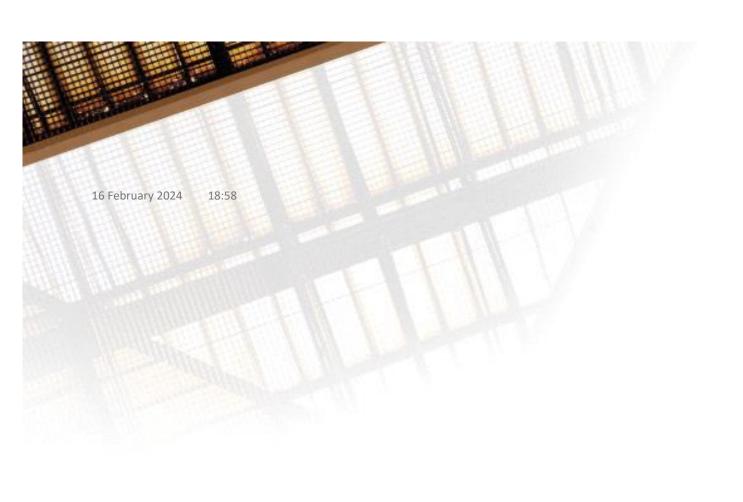
16 February 2024 18:58

1

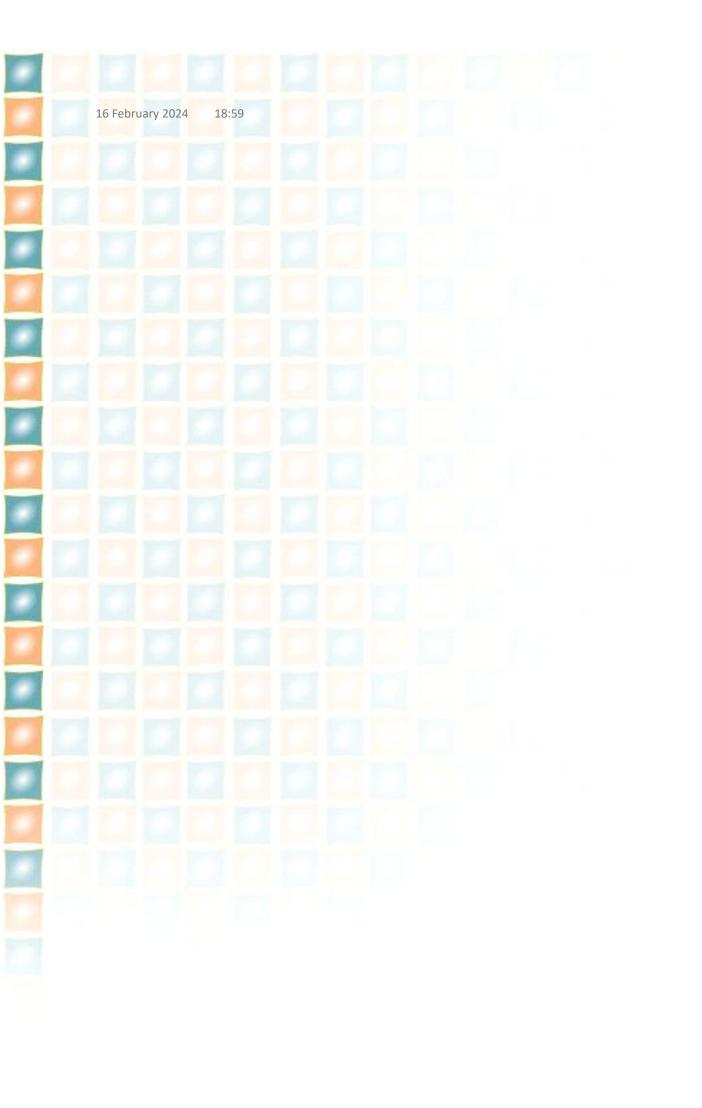








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16th February, 2024[Day 6]

16 February 2024

Lambda function

- ♦ It is an anonymous function
- \Diamond N number of arguments but only one expression means a,b,c,....N: a+b*c...(any operation)N

N number of 1 expression only args

- ♦ It is a shorter way of writing a function/concise function representation
- ♦ Lambda argument: expression
- Mostly used where some function is inside another function

Class

- Class / object
- Almost everything is an object --> properties & functions
- Class variables are stored in heap as they are global for the functions of a class
- Variables used in a function i.e local variables of a function are stored in stack, so that the memory can be used
- > __init__()
- ➤ It is a built in function. Function to assign values
- Init is automatically called when new object is created

POLYMORPHISM

- Iterators are objects, countable numer
- List tuple dict, sets are iterable objects

19th February, 2024[hack discussion]

23 February 2024

23rd February, 2024[day8]

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Polymorphism	
Scope	
Try Catch block	
Pip is python package manager	
Beautiful Soup	