

Lecture 26

Student Symbol table

2
3

```
1 class Student:
2     def __init__(self, name, year):
3         self.name = name
4         self.year = year
5
6     def getName(self):
7         return self.name
8
9     def getYear(self):
10        return self.year
11
12    def setYear(self, newYear):
13        self.year = newYear
14
```

1
4

```
15
16 if __name__ == '__main__':
17     # Symbol table example
18     jane = Student('Jane', 2024)
19     print(jane.getYear())
20     jane.setYear(2023)
```

1)

Ma.h

<u>Name</u>	<u>Value</u>
Student	<Class>

jane = Student('Jane', 2024)

< Student class >

<u>Name</u>	<u>type</u>	<u>Value</u>
--init--	method	
get Name	"	
get year	"	
set year	"	

get year

<u>Name</u>	<u>Value</u>
Self	

jane.getyear()

return self.year

[line 10] return 2024

< Student object > jane

<u>Name</u>	<u>Value</u>
--init--	
get Name	
get year	
set year	
name	'Jane'
year	2024

--init--

<u>Name</u>	<u>Value</u>
Self	
name	'Jane'
year	2024

'Jane'

2) self.name = name

3) self.year = year

line 18 ends

4) Line 19

June.getYear() $\Rightarrow$ 2024.

getYear table goes away

~~| getYear | |
|-------------|--------------|
| <u>Name</u> | <u>Value</u> |
| Self | |~~