

FORMATTING STRINGS

- Built-in Python function or method.
- Adds a string to an empty "{}"

In [2]:

```
student = input("Enter student's name: ")
grade = input("Enter students grade: ")

"The student's name: {}, grade is {}".format(student, grade)
```

Enter student's name: Michael
Enter students grade: A-

Out[2]:

"The student's name: Michael, grade is A-"

In [3]:

```
student
```

Out[3]:

'Michael'

In [5]:

```
semester1 = eval(input("Enter semester1 grade: "))
semester2 = eval(input("Enter semester2 grade: "))

final_grades = "The total is {}".format((semester1 + semester2))
final_grades
```

Enter semester1 grade: 55
Enter semester2 grade: 77

Out[5]:

'The total is 132'

In [11]:

```
animals = ["lions", "zebras", "elephants"]

safari = "I saw a {}, {} and {}"
safari.format(animals[0], animals[1], animals[2])
```

Out[11]:

'I saw a lions, zebras and elephants'

In [12]:

```
safari.format(*animals)
```

Out[12]:

'I saw a lions, zebras and elephants'

In [19]:

```
eval("{} + {} + {}".format(10, 20, 30))
```

Out[19]:

60

In [47]:

```
eval("{1} * {1} + {1}".format(*[10, 20, 30]))
```

Out[47]:

420

In [22]:

```
"%d + %d = %d" % (10, 20, (10 + 20))
```

Out[22]:

'10 + 20 = 30'

In [192]:

```
"%s / %s = %s" % (10, 20, (10/20))
```

Out[192]:

'10 / 20 = 0.5'

In [193]:

```
"s / %s = %d"
```

Out[193]:

's / %s = %d'

In [80]:

```
word = "awesome"  
"The length of this word {} is {}".format(word, len(word))
```

Out[80]:

'The length of this word awesome is 7'

In [174]:

```
"days left are {num: .1f}".format(num = 300/9)
```

Out[174]:

'days left are 33.3'

In [176]:

```
num = 300/9  
f"days left are {num: .2f}"
```

Out[176]:

'days left are 33.33'

In [177]:

```
"{} {} {}".\
format("a", "b", "c")
```

Out[177]:

'a b c'

In [181]:

```
eval(f"{10 / 22 : .5f}") + 100
```

Out[181]:

100.45455

In [63]:

```
p1 = "Python" ; p2 = "older"

f"""This is a docstring that uses {p1} 3.6 a
nd can't be used for
{p2} versions!""".replace("\n", "").upper()
```

Out[63]:

"THIS IS A DOCSTRING THAT USES PYTHON 3.6 AND CAN'T BE USED FOR OLDER VERSIONS!"