

Live Assignment Help

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User Input

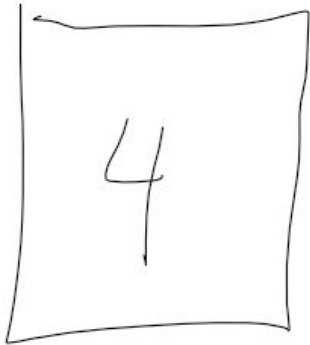
```
name = input('Enter your name: ')
```

- **input** command gets text input from the user
- Prints text specified in double/single quotes
 - Then waits for user input
 - Here, user input from **input** is put in a variable (**num1**)
 - The user input is considered text, even if user entered a number
- We'll talk more about **input** function later

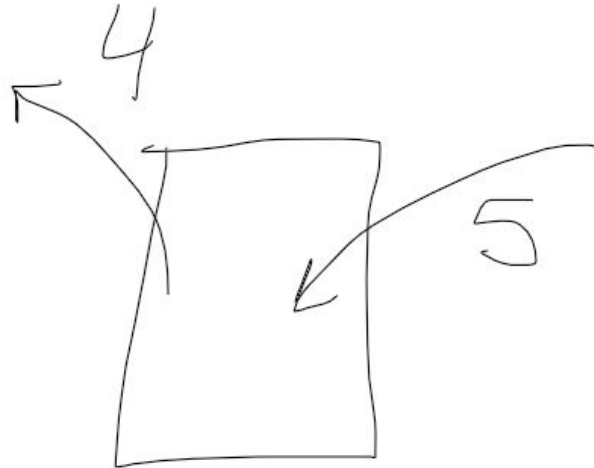
Variables

Variables let us store information!

`x = 4`



`x = 5`



Variable Types

```
num1 = input('Enter a number')
```

"23"

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```



"23"

Type: **string**

What can we do with this?

- Print
- Concatenate to other strings

What can't we do?

- Arithmetic operations (+, *, /, etc.)

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```
num1 = input('Enter a number')  
num1 = int(num1)
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Variable Types

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num1 = input('Enter a number')  
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```

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Type: **int**

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What can't we do?

- Concatenate to strings

Loops

For Loop:

```
for i in range(10):  
    print("I'll print 10 times!")
```

While Loop:

```
name = input("What's the password: ")  
while name != "mehranlightsaber":  
    print("That's not the password!")  
    name = input("What's the password: ")
```


Random Numbers

```
r = random.randint(0, 5)  
# both are inclusive -  
# they could be included in the potential output
```

Practice Problems

Random Average - placement

Which of these will correctly aggregate the values of all of the r's into total?

A

```
total = 0
for i in range(N_RANDS):
    r = random.randint(0, 10)
    total += r
```

B

```
total = 0
for i in range(N_RANDS):
    r = random.randint(0, 10)
    total += r
```

C

```
total = 0
for i in range(N_RANDS):
    total += r
    r = random.randint(0, 10)
```

D

```
total = 0
total += r
for i in range(N_RANDS):
    r = random.randint(0, 10)
```