

# Comparing Python3 to C (1)

## Introduction to Data Types

int (integers, whole numbers)

- 7
- 47
- 338
- 9876

float (decimals, point numbers)

- 7.7
- 0.341
- 99.9999
- 1.0

str (strings, words, characters)

- "text box"
- "Josh"
- "7"
- "W"
- "¿"

bool (booleans, binary)

- True or False
- On or Off
- Yes or No
- 0 or 1

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## Logical Operator

### Python

```
AND
NOT
OR
```

### C

```
&&  // AND
||  // OR
!   // NOT
```

## Printing an int variable

### Python

```
x = 7

print(x)

# OUTPUT:  7
```

## C

```
#include <stdio.h>

int main(void) {

    int x = 7;

    printf("%d\n", x);

    return 0;
}

// OUTPUT:  7
```

## Printing a string

### Python

```
firstName = "Joe"

print(firstName)

# OUTPUT:  Joe
```

## C

```
#include <stdio.h>

int main(void) {

    char firstName[3] = "Joe";

    printf("%s\n", firstName);

    return 0;
}

// OUTPUT:  Joe
```

## Printing multiple strings

### Python

```
firstName = "Joe"
lastName = "Newtons"

print(firstName, lastName)

# OUTPUT:  Joe Newtons
```

## C

```
#include <stdio.h>

int main(void) {

    char firstName[3] = "Joe";
    char lastName[7] = "Newtons";

    printf("%s %s\n", firstName, lastName);

    return 0;
}

// OUTPUT:  Joe Newtons
```

## Printing user input

### Python

```
# INPUT:  Hello

userInput = input()

print(userInput)

# OUTPUT:  Hello
```

## C

```
// INPUT:  Hello

#include <stdio.h>

int main(void) {

    char userInput[5];

    scanf("%s", &userInput);
    printf("%s\n", userInput);

    return 0;
}
```

```
// OUTPUT: Hello
```