

Tasks | WfWW basic programming workshop 3

November 30, 2018

```
In [ ]: %reset -f
```

1 Feel free to copy, paste and try code from the cheat sheet!

2 Print

Print your name

```
In [ ]: print()
```

3 Perform calculations

Print out the sum of 4 and 8

```
In [ ]: print()
```

Check if -3 is greater than 0

```
In [ ]: print()
```

4 Variables, strings and basic operations

Print your name and your favorite number using variables
variables: name, number

```
In [ ]: name # YOUR CODE HERE
        fav_num # YOUR CODE HERE
        print("My name is "+ name + " and my favorite number is " ) # YOUR CODE HERE
```

5 If Else Conditions

Check if an inputed number is even or odd

```

In [ ]: num = input('Enter a number: ')

num = int(num)

if "___" != "___": # YOUR CODE HERE
    print('this is not a number')

if "___" == 0: # YOUR CODE HERE
    print(str(num) + ' is even')
else:
    print(str(num) + ' is odd')

```

6 Lists

Find the length of the list called 'fruits'

```

In [ ]: fruits = ['apple', 'banana', 'orange']

# YOUR CODE HERE

```

7 Loops

Use a loop to output the numbers from 0 to 10.

```

In [ ]: for num in range(): # Your code here
    print(num)

```

Then, change your program to output the even numbers from 0 to 20.

```

In [ ]: for num in range: # Your code here
    even_num = # YOUR CODE HERE
    print(even_num)

```

8 Inputs

Let the program ask for the name and save it in a variable. Afterwards let it greet the user with "Hello" and her name.

```

In [ ]: usr_name = # YOUR CODE HERE

print('Hello', usr_name)

```

Alter the program so that it says "Hello" only if the user's name is Alice, otherwise it says "Moi".

```
In [ ]: usr_name = # YOUR CODE HERE

if usr_name "___":
    print('Moi')
else:
    print('Hello', usr_name)
```

9 If-Else conditions

Alter your program again so that it repeats asking the user for her name until she types in “stop” instead of her name.

10 Lists

Use the len() function to find and print the list with 4 elements

```
In [ ]: a = [4,1,5,3,6]
        b = [1,8,5,2,6,3]
        c = [8,4,28,0]

if # YOUR CODE HERE:
    print(a)
elif len(b) == 4: # your code here
    print(b)
else:
    print(c) # your code here
```

Use the append() function to add your favorite number to list b.
hint: you put your favorite number in a variable that you can reuse!

```
In [ ]: # YOUR CODE HERE
        print(b)
```

11 Zero Index & finding elements in a list

Print out the 4th element in list b

```
In [ ]: print(b# YOUR CODE HERE)
```