CSC 280 Introduction to Computer Science: Programming with Python

Lecture 5 : Loops, Nested Loops, Break

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take-home exercise

- Write a program that ask users to input 10 integers, and then prints the largest odd number. If no odd number is entered, it should print a message to that effect.

- Hint: create a variable max and always compare the user's input with it.

A short tutorial on printing formatted output

- How do we generate a sentence with both numbers and strings:

There are 10 types of people.

Those who know binary and those who don't.

I said: 'There are 10 types of people.'.

I also said: 'Those who know binary and those who don't.'.

Exercises

- Print the following statements. Please use for matted numbers in the string.

- 1 Euro is 1.29 Dollars.

- Today's temperature is 85.50 F, while yesterday's was 75 F.

- Mom said: ' Don't look at your phone while biking!'

Fun with For Loops

How do you generate the following pattern?
Print a 5 rows by 5 Columbus of stars using for loop. Hint: 3*"*" -> ***

*****

*****

*****

*****

*****

Fun with For Loops

How about this?

*

**

***

****

*****

Fun with For Loops

How about a pyramid?

Hint: print ' ' before '*'

```
       *
      ***
     *****
    *******
   *********
```

Nested loops

```
for iterating_var in sequence:
    for iterating_var in sequence:
        statements(s)
    statements(s)
```

Exercise:

- Using a nested For loop, output the following:

1 1 1 1

2 2 2 2

3 3 3 3

4 4 4 4