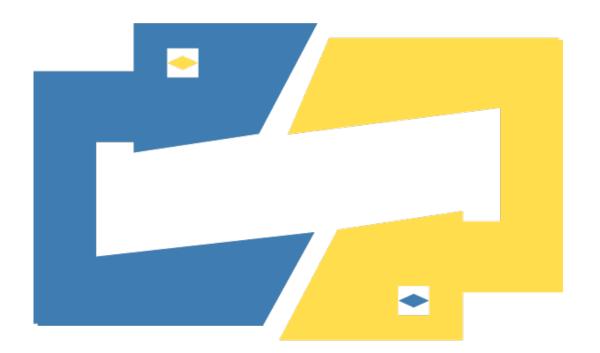
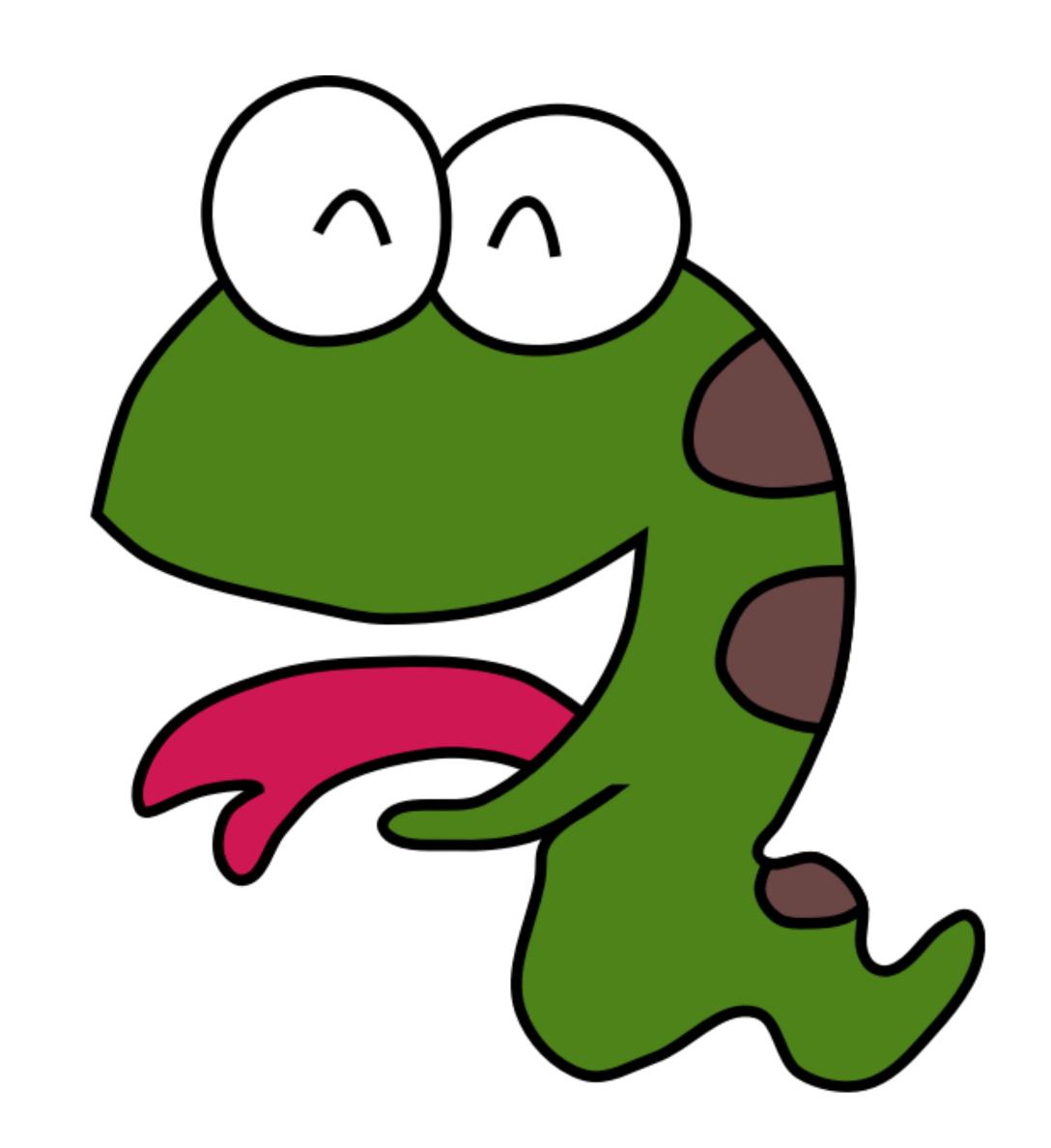
Web Application Development using Python

Introduction to Python



Outline

- Your first Python program
- Numbers and Math
- Storing data in variables
- Text and Strings



Your first Python program

```
print("Hello HTU!")
print("Welcome to Python Web.")
$ python ./hello.py
```

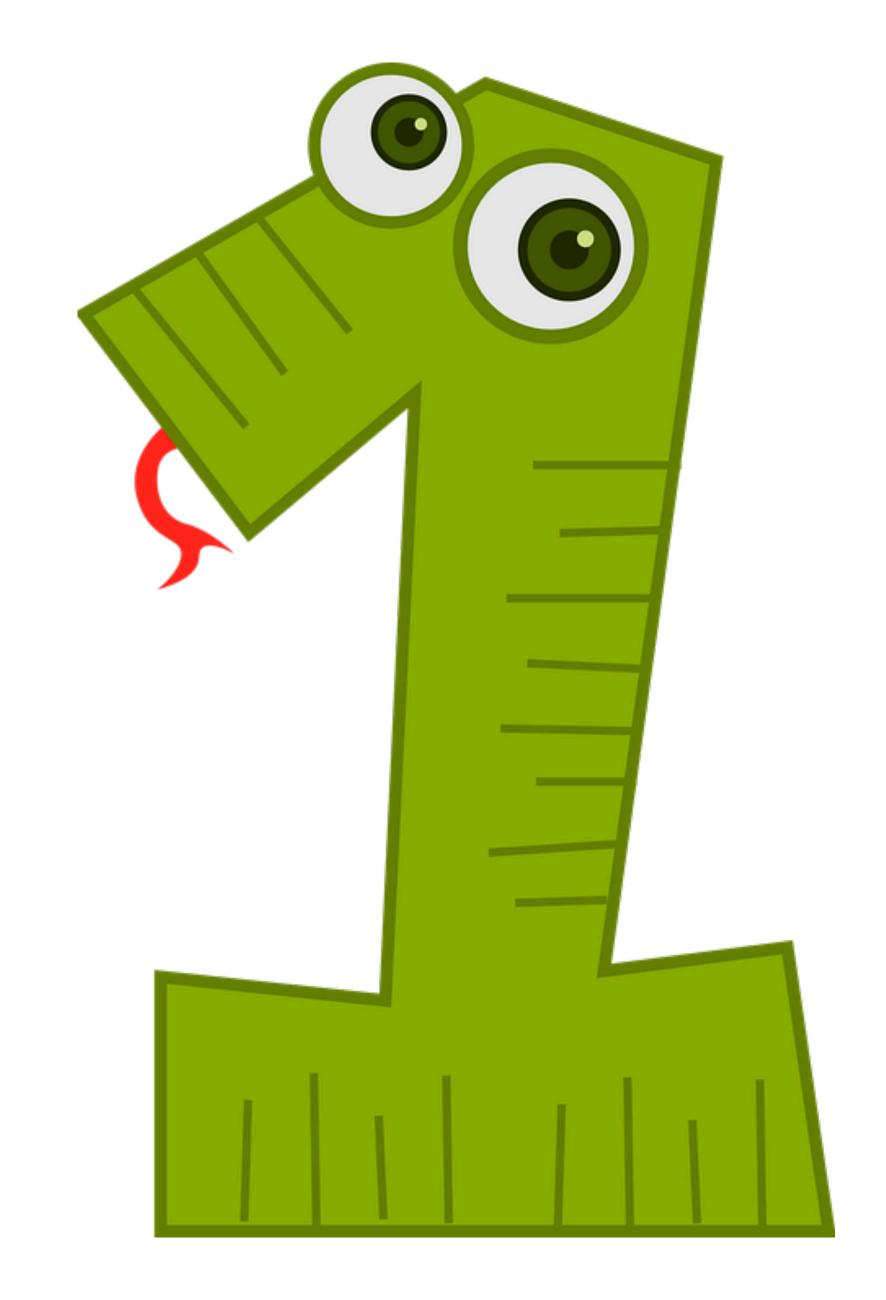
Numbers and Math ex3.py

Basic arithmetic

Logical comparator

Additional operators

• //



Storing data in variables ex4.py / ex5.py / ex6.py / ex7.py

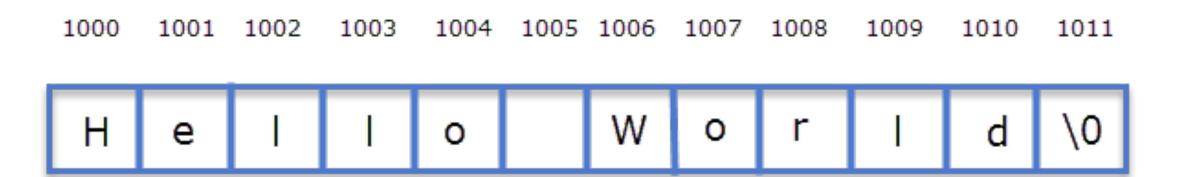
- What is a variable?
 - A variable is nothing more than a name for something.
- Variables in Python are dynamically typed.
- user_name ="George"
- user_age = "50"



Text and Strings

ex8.py / ex9.py / ex10.py / ex11.py

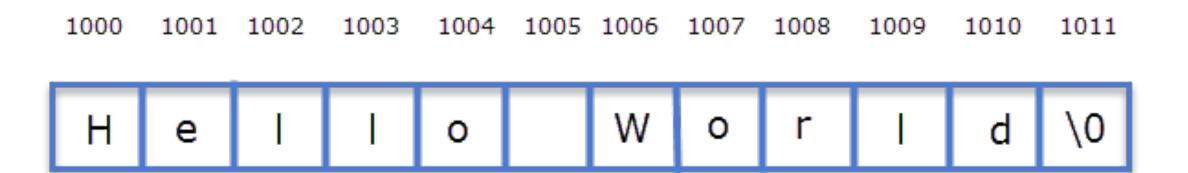
- Strings are used as the data type for text.
- We can create them simply by enclosing characters in quotes.
- Python treats single quotes the same as double quotes.
- hello = 'Hello World!'
- class_msg = "Welcome to Python web (ICTC5)."



String operations

ex8.py / ex9.py / ex10.py / ex11.py

- With Strings we can also use the following operators
 - + to concatenate strings
 - * to repeat strings
 - [] to slice a string
 - [:] to range slice a string



String formatting

ex8.py / ex9.py / ex10.py / ex11.py

- name = Alan Turing
- balance = 11001111
- print('Hello, %s.' % name)
- print ('Your current balance is %d.' % balance)