

Python and Flask

@hussam_almarzoq

About Me

- Started in 2014 at Tabalwor R&D
- Technical lead at zid.sa
- Student at Pitt

Python

Python

For Java Devs

Installing Python

- For Unix Based Systems: apt, rpm, brew
- For Windows Systems: python.org

Basic Hello World

```
public class HelloWorld {  
    public static void main(String[] args){  
        System.out.println("Hello, World");  
    }  
}
```

Basic Hello World

```
print("Hello, World")
```

Variables

```
int x = 1;
```

```
String y = "String";
```

```
bool z = true;
```


Variables

`x = 1 // Integer`

`y = "String" // String`

`z = True // Boolean`

Function

```
void sayHi(string name){  
    System.out.println("Hi "+name);  
}
```

Function

```
def sayHi(name):  
    print "Hi "+name
```

Loops

```
for(int x = 0; x < 10; x++){  
    System.out.println(x);  
}
```

Loops

```
for x in range(10):
```

```
    print(x)
```

Loops

```
String[] array = ["One", "Two", "Three"];  
  
for (String element : array) {  
    System.out.println("Element: " + element);  
}
```

Loops

```
numbers = ["One", "Two", "Three"]
```

```
for number in numbers :
```

```
    print number
```

If statements

```
int x = 10;

if(x > 10){

    System.out.println("more than 10");

}else if (x < 10){

    System.out.println("less than 10");

}else{

    System.out.println("Equals to 10");

}
```


If statements

```
x = 10
```

```
if x > 10:
```

```
    print "more than 10"
```

```
elif x < 10:
```

```
    print "less than 10"
```

```
else:
```

```
    print "Equals to 10"
```



Flask

```
#!/usr/bin/env python
```

Why use a framework ?

```
import MySQLdb
```

```
print "Content-Type: text/html\n"
```

```
print "<html><head><title>Books</title></head>"
```

```
print "<body>"
```

```
print "<h1>Books</h1>"
```

```
print "<ul>"
```

```
connection = MySQLdb.connect(user='me', passwd='letmein', db='my_db')
```

```
cursor = connection.cursor()
```

```
cursor.execute("SELECT name FROM books ORDER BY pub_date DESC LIMIT 10")
```

```
for row in cursor.fetchall():
```

```
    print "<li>%s</li>" % row[0]
```

```
print "</ul>"
```

```
print "</body></html>"
```

```
connection.close()
```

Python's Package Manager

pip: python's package
manager

```
$ pip install flask
```

Hello world

HTML Rendering

HTTP verbs and Forms

JSON Response

Parsing JSON

Questions?