

Object Oriented Programming with Python

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Session 07

Content

- Logs
- Physics problem
- Static methods/functions
- Use our Physics lib

Logs

use logging package

```
import logging
```

Configure logging

```
logging.basicConfig(filename='test.log', level=logging.DEBUG)
```

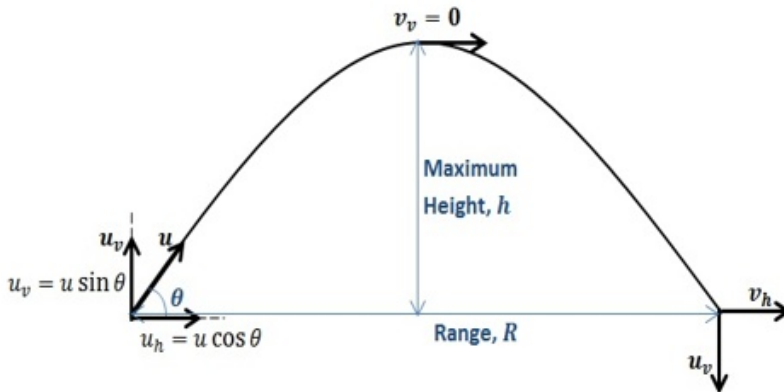
how to use

```
logging.debug('<Class_name>:<Function_name>: {}'.format(arg
```

Physics problem

Let's use all the things that we learn until now

As a user I would like to have lib that help me to calculate physics problems, in this case parabolic movement.



Physics formulas

$$V_{ox} = V_o * \cos <angle>$$

$$V_{oy} = V_o * \sin <angle>$$

$$D = V_o^2 * \sin 2<angle>$$

$$T = 2V_o \sin <angle>$$

$$D = (V_o * \sin 2<angle>) / g$$

Where: V_o = initial velocity V_{ox} = initial velocity in X V_{oy} = initial velocity in Y T = run time D = Distance

Static Methods/Functions

*# to use static methods you can use the
following decorator*

```
@staticmethod  
def my_method():  
    pass
```

Use the new Physics lib

A goalkeeper shoot the ball out of his goal with velocity 26 m/s and 40 grade. Calculate:

- The max height
- The distance
- The time that the ball would be in the air