

Compter Science Home Work

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This is a program that we can calculate the time of the object and the highest height, even including the velocity.

WHAT IS VELOCITY?

```
a=-9.8  
v0=19.6  
y0=10.0  
dt=0.01  
t=0.0
```

a,v0,y0,dt,t,are the basic price to calculating the time of the object and the highest height.

WHAT IS THE NEXT STEP?

```
ymax=0.0  
  
v=v0  
y=y0  
  
while y>0.0:  
    t=t+dt  
    v=v+a*dt  
    y=y+v*dt  
    if y > ymax:
```

After we type that code above, we will go up to those steps that really calculating the Velocity.

So those code is very important to show how we can prove the process.

And finally, we type the feedback information in the end.

```
ymax=y

print "the number is "+str(t)+" sec"
print "the final velocity is "+ str(v)+" meter/sec"
print "the maximum height is "+str(ymax)+" meter"
```

The advantage of this code is that code can make a sentence for user to understand what is the time of throw the object, the final celosity and the maximum height of the object.