

## Newtonian-C, by Ian Mitchell

When using Newtonian-C, the first thing you will see is a menu, which, is pretty self explanatory.

```
Newtonian-C, by Ian Mitchell (c) 2017, Gnu GPL v3
Please pick an option from below
```

- ```
-----
1) Kinematic system
2) Wave system
3) Gravitational System
4) About
```

```
--->
```

All you need to do is pick an option on the menu, and then add the necessary values. For the sake of simplicity on this documentation, let's choose option 2 (Wave system), since it only has one value needed to operate.

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```

- ```
-----
1) Kinematic system
2) Wave system
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4) About
```

```
---> 2
```

Upon choosing option number 2, and pressing ENTER (RETURN), you should see a screen that looks something like this...

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Please pick an option from below
```

- ```
-----
1) Kinematic system
2) Wave system
3) Gravitational System
4) About
```

```
---> 2
```

```
Please enter the Period (time) of the wave
>
```

Next, all you need to do is input the value needed. Let's say, 10.

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- 1) Kinematic system
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- 4) About

---> 2

Please enter the Period (time) of the wave

> 10

Period:  $T = 10.000000$

Frequency:  $f = 0.100000$

Angular Frequency:  $= 0.628318$

Amplitude  $= 100.000000$

Velocity:  $v = 6.283184$

Wavelength:  $= 62.831841$

It will then output all the values calculated by the program.

#### IMPORTANT

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When using options 1 or 3, it will tell you to enter the values in the exact order it says. Failure to do so will result in misleading outputs, that are wrong in the context of whatever calculations that you may be making.