

DS 2000 Homework 1 Output

Question 1 (running.py)

```
In [1]: runfile('/Users/xinghua_peng/courses/ds2000_fall22/homework_1/running.py',  
wdir='/Users/xinghua_peng/courses/ds2000_fall22/homework_1')
```

Enter distance [km]: 5.2

Enter time [minutes]: 29

Enter time [seconds]: 18

Your pace was 9 minutes 4.3 seconds per mile.

Question 2 (mortgage.py)

```
In [2]: runfile('/Users/xinghua_peng/courses/ds2000_fall22/homework_1/mortgage.py',  
wdir='/Users/xinghua_peng/courses/ds2000_fall22/homework_1')
```

Principal loan amount: 300000

Annual interest rate : 0.05

Loan terms (years) : 30

Monthly payment : 1610.46

Question 3 (light.py)

```
In [3]: runfile('/Users/xinghua_peng/courses/ds2000_fall22/homework_1/light.py',  
wdir='/Users/xinghua_peng/courses/ds2000_fall22/homework_1')
```

Enter distance [miles]: 240000

Light travel time: 0h 0m 1.3s

```
In [4]: runfile('/Users/xinghua_peng/courses/ds2000_fall22/homework_1/light.py',  
wdir='/Users/xinghua_peng/courses/ds2000_fall22/homework_1')
```

Enter distance [miles]: 93000000

Light travel time: 0h 8m 19.4s

```
In [5]: runfile('/Users/xinghua_peng/courses/ds2000_fall22/homework_1/light.py',  
wdir='/Users/xinghua_peng/courses/ds2000_fall22/homework_1')
```

Enter distance [miles]: 3000000000

Light travel time: 4h 28m 31.1s