

Dale Heck

CS 417/ Dr. Kranz

Assignment 3 outputs

Question 1

```
In [2]: runfile('/Users/loganheck/untitled0.py', wdir='/Users/loganheck')
```

```
Count for 'Right' (case-insensitive): 7
```

```
Count for 'Rights' (case-insensitive): 5
```

```
Top 25 words:
```

```
the -> 133
```

```
of -> 106
```

```
to -> 70
```

```
and -> 61
```

```
for -> 33
```

```
import -> 29
```

```
a -> 27
```

```
our -> 27
```

```
in -> 22
```

```
their -> 22
```

```
has -> 21
```

```
us -> 20
```

```
he -> 19
```

```
declaration -> 18
```

```
archives -> 17
```

```
nbs -> 17
```

```
them -> 15
```

```
by -> 13
```

```
documents -> 13
```

```
is -> 13
```

```
these -> 13
```

```
have -> 12
```

```
that -> 12
```

```
all -> 11
```

```
it -> 11
```

Question 2

```
In [5]: runfile('/Users/loganheck/Documents/Intro to object  
oriented programming/untitled1.py', wdir='/Users/loganheck/  
Documents/Intro to object oriented programming')
```

```
Enter month number (1-12):
```

```
1
```

```
Enter start weekday (0=Sun, 1=Mon, ..., 6=Sat):
```

```
2
```

```
January
```

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

```
In [6]: runfile('/Users/loganheck/Documents/Intro to object  
oriented programming/assign. 3, question 2.py', wdir='/Users/  
loganheck/Documents/Intro to object oriented programming')
```

```
Enter month number (1-12):
```

```
5
```

```
Enter start weekday (0=Sun, 1=Mon, ..., 6=Sat):
```

```
6
```

```
May
```

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Question 3

```
In [7]: runfile('/Users/loganheck/Documents/Intro to object
oriented programming/untitled2.py', wdir='/Users/loganheck/
Documents/Intro to object oriented programming')
Enter a string:
3
You entered: 3
Number of characters: 1

In [8]: runfile('/Users/loganheck/Documents/Intro to object
oriented programming/assign.3, question3.py', wdir='/Users/
loganheck/Documents/Intro to object oriented programming')
Enter a string:
123445
You entered: 123445
Number of characters: 6
```

Question 4

```
In [9]: runfile('/Users/loganheck/Documents/Intro to object
oriented programming/untitled3.py', wdir='/Users/loganheck/
Documents/Intro to object oriented programming')
Original DNA (first 60 chars):
TGGCCAGTAGATCTTCCCAACATAGCCTAGCTGGACATATTCACTAAACCGAACAATCTA

Mutated DNA (first 60 chars):
TGGCCAGTGGATCTTCCCAACATAGTCTAGCTGTAGATAATCACTACACCGAACAATCTA

Before mutation:
Frequency Table (showing first 16 positions):
A : [0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 1, 0, 0, 0, 0, 0]
C : [0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1]
G : [0, 1, 1, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0]
T : [1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 1, 1]

After mutation:
Frequency Table (showing first 16 positions):
A : [0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0]
C : [0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1]
G : [0, 1, 1, 0, 0, 0, 1, 0, 1, 1, 0, 0, 0, 0, 0, 0]
T : [1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 1, 1]
```

