

- Part 1:

- Answer:

```
garrettdozier@Garretts-MacBook-Pro-4 ~/Desktop/GitHub/Dozier_GEOG392/Lab2
$ /usr/bin/python /Users/garrettdozier/Desktop/GitHub/Dozier_GEOG392/Lab2/Lab2_part1_Dozier.py
302231454903657293676544
garrettdozier@Garretts-MacBook-Pro-4 ~/Desktop/GitHub/Dozier_GEOG392/Lab2
```

- Code:

```
Lab2_part1_Dozier.py > ...
1  #[-----]
2  # QUESTION 1
3
4  #defining function in order to multiply all the items within the list
5  def List1multiply(part1List) :
6      |   intitial1= 1
7      |   for x in part1List:
8      |       |   intitial1 = intitial1 * x
9      |   return intitial1
10
11
12
13  part1 = [1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096]
14
15  print(List1multiply(part1))
16
17
18
19
```

- Part 2:

- Answer:

```
garrettdozier@Garretts-MacBook-Pro-4 ~/Desktop/GitHub/Dozier_GEOG392/Lab2
$ /usr/bin/python /Users/garrettdozier/Desktop/GitHub/Dozier_GEOG392/Lab2/Lab2_part2_Dozier.py
719788177
garrettdozier@Garretts-MacBook-Pro-4 ~/Desktop/GitHub/Dozier_GEOG392/Lab2
```

- Code:

```
Lab2_part2_Dozier.py > ...
1  #[-----]
2  # QUESTION 2
3
4  #defining function in order to add all the itermis within the list
5  def List2addition(part2List) :
6      intitial2= 1
7      for x in part2List:
8          intitial2 = intitial2 + x
9      return intitial2
10
11
12  part2 = [-1, 23, 483, 8573, -13847, -381569, 1652337, 718522177]
13
14  print(List2addition(part2))
```

- Part 3:

- Answer:

```
garrettdozier@Garretts-MacBook-Pro-4 ~/Desktop/GitHub/Dozier_GEOG392/Lab2
$ /usr/bin/python /Users/garrettdozier/Desktop/GitHub/Dozier_GEOG392/Lab2/Lab2_part3_Dozier.py
('List of the even numbers: ', [146, 44, 46, 76, 68, 14, 38, 26])
garrettdozier@Garretts-MacBook-Pro-4 ~/Desktop/GitHub/Dozier_GEOG392/Lab2
```

- Code:

```
Lab2_part3_Dozier.py > ...
1  #[-----]
2  # QUESTION 3
3
4  part3 = [146, 875, 911, 83, 81, 439, 44, 5, 46, 76, 61, 68, 1, 14, 38, 26, 21]
5
6  #create empty list in order to feed the numbers into
7  part3_answer = []
8
9  #used a for loop to return and append the even numbers
10 for num in part3:
11     |
12     | if num % 2 == 0:
13     |     part3_answer.append(num)
14
15
16 print('List of the even numbers: ', part3_answer)
17
```