HW# - Title

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Q1

You may copy the question into your report, but make sure that you make it clear where the question ends and your answer begins.

Answer

All figures must have a caption and must be referenced in the text. Example below.

Figure 1 shows the population chart from 1800 to 2000.

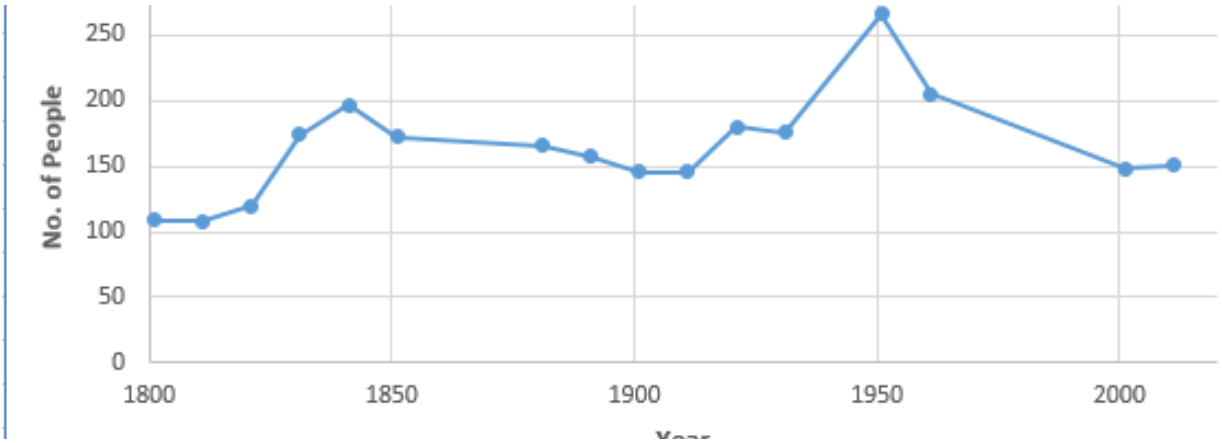

Figure 1: Population Growth chart

If you want to include code in your report, you can insert a screenshot (if it's legible), or you can copy/paste the code into a listings environment. There are examples below and more information is available at `https://www.overleaf.com/learn/latex/code_listing`.

Listing 1 is an example of directly copying code into the LaTeX document and having the listings package perform syntax highlighting. Listing 2 is an example of importing the code from a file rather than copying it in.

```
1 # Program to display the Fibonacci sequence up to n-th term
2
3 nterms = int(input("How many terms? "))
4
5 # first two terms
```

```
n1, n2 = 0, 1
count = 0

# check if the number of terms is valid
if nterms <= 0:
   print("Please enter a positive integer")
# if there is only one term, return n1
elif nterms == 1:
   print("Fibonacci sequence upto",nterms,":")
   print(n1)
# generate fibonacci sequence
else:
   print("Fibonacci sequence:")
   while count < nterms:
       print(n1)
       nth = n1 + n2
       # update values
       n1 = n2
       n2 = nth
       count += 1
```

Listing 1: Python example copied into the LaTeX

```
#!/usr/local/bin/python3
# testargs.py

import sys

print ("{} is the name of the script." . format(sys.argv[0]))
print ("There are {} arguments: {}" . format(len(sys.argv), str(sys.
   argv)))

for ind, arg in enumerate(sys.argv):
    print ("[{}]: {} {}".format(ind,arg,sys.argv[ind]))
```

Listing 2: Python sample code loaded from file

Table 1 shows a simple example table. Table 2 shows an example confusion matrix (you'll see this term later) from `https://en.wikipedia.org/wiki/Confusion_matrix`. This employs rows that span multiple columns (multicol) and columns that span multiple rows (multirow).

Discussion

You must provide some discussion of every answer. Discuss how you arrived at the answer and the tools you used. Discuss the implications of your answer.

Table 1: Simple Table

Week	Date	Topic
1	Aug 8	Introduction to Web Science and Web Architecture
2	Sep 4	Introduction to Python
3	Sep 11	Introduction to Info vis with R and Python
4	Sep 18	Measuring the Web

Table 2: Example Confusion Matrix from Wikipedia

		Actual	
		Cat	Dog
Predicted	Cat	5 (TP)	3 (FP)
	Dog	2 (FN)	3 (TN)

Q2

Answer

Discussion

Q3

Answer

Discussion

References

Every report must list the references that you consulted while completing the assignment. If you consulted a webpage, you must include the URL.

- Reference 1, `https://www.programiz.com/python-programming/examples/fibonacci-sequence`
- Reference 2, `https://www.python.org/`
- Reference 3, `https://www.overleaf.com/`