The code create a graph of words and then uses Breath First search to compute the word ladder.

For creating the graph a similarity score is computed for each word against every word in the dictionary and only word which have a similarity score of 1 are accepted as immediate neighbour vertex.

Positive Cases-

Following is the output for cold to warm-

```
main() if b in d.keys() and c in d.keys... > else

Run: hw1 ×

"C:\Users\Prakhar Gupta\Desktop\AI630\hw1\venv\Scripts\python.exe" "C:\Users\Prakhar Gupta\Desktop\AI630\hw1\hw1.py" exampleWords.txt cold warm
Creating Graph mapping.....
Creating Graph........
Word ladder......
oold
cord
cord
card
ward
warm
It took 27.2655 seconds
```

Following is the output for small to short-

Negative Case-

Following is the output for warm to short-

```
hw1 x

"C:\Users\Prakhar Gupta\Desktop\AI639\hw1\venv\Scripts\python.exe" "C:\Users\Prakhar Gupta\Desktop\AI639\hw1\hw1.py" exampleWords.txt warm short

Creating Graph mapping.....

Creating Graph.......

Word ladder......

no solution

It took 25.9681 seconds

Process finished with exit code 0
```