### CMPE 282: In-Class Group Assignment: II

#### **Group members:**

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Q1: Use a language model to help your team write a program that does the following:

Include tests showing all the sentiments and submit a word document with screenshots of the program operations and tests.

Include a link to your source code on github, etc.. Use any programming language you prefer.

#### Here is the code in python 3:

```
import nltk
nltk.download('vader_lexicon')
from nltk.sentiment import SentimentIntensityAnalyzer
def sentiment_analysis(text):
  sentiment = SentimentIntensityAnalyzer().polarity scores(text)
  if sentiment['compound'] >= 0.05:
     return 'Positive'
  elif sentiment['compound'] <= -0.05:
     return 'Negative'
  else:
     return 'Neutral'
# Test cases
test texts = [
  'This is an amazing product!',
  'I hate this product',
  'This product is just okay',
for text in test texts:
  print(f'{text}: {sentiment_analysis(text)}')
```

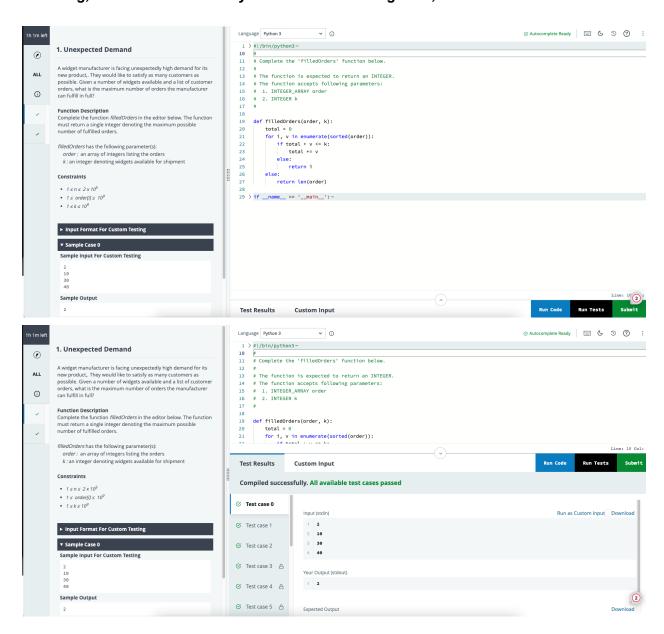
Q2: Use a language model to help your team solve HackerRank Links to an external site.coding problems, in the language of your choice

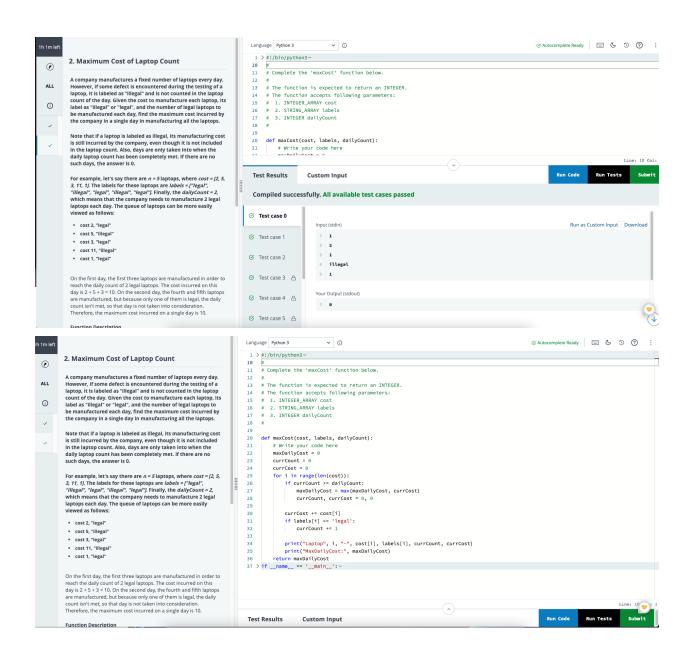
#### 1. One of: Easy, Medium, or Hard

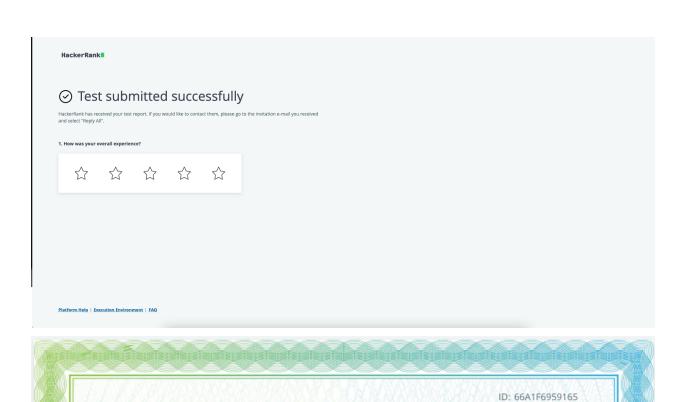
First, use a simplistic prompt, and show the initial score from HackerRank Use Prompt Engineering techniques to refine your answer, and show the HackerRank score for the improved answer

Include screenshots of the code operations and results.

Checking, and include a link to your source code on github, etc.









# Certificate

This is to certify that

## **Rutvik Moradiya**

has successfully cleared the assessment for the skill

**Problem Solving (Basic)** 

09 Feb, 2023

Date

Harishankaran K

CTO, HackerRank