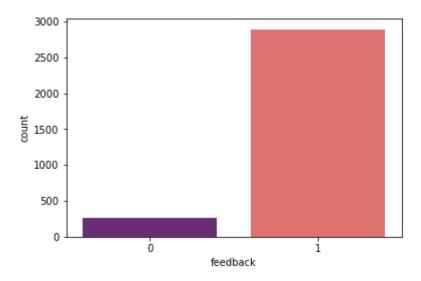
```
************Approach to the problem**********
 In [ ]:
          Using the Amazon Alexa review data set,
          performed Data Analysis,
          Applied Data Cleaning steps using NLTK library applied following steps
              *removing stop words,
              *removing puntuation,
              *special characters,
              *Numbers,
              *Word Tokenization,
              *Lemmatization.
          Data Tranformation
              * TOkenization
          **Results
          Applied Multinomial Naive Bayes classification to predict if the review is positive or negative.
          Got Accuracy of 91percent
          **Future Work
          Apply various Machine learning Algorithms and do comparision between various algorithms.
In [85]: import pandas as pd
          import matplotlib.pyplot as plt
          %matplotlib inline
          import numpy as np
          import seaborn as sns
In [86]: | data = pd.read csv('amazon alexa.tsv', delimiter='\t')
In [87]:
          data.head()
Out[87]:
                                                                    verified_reviews feedback
              rating
                        date
                                  variation
                 5 31-Jul-18 Charcoal Fabric
           0
                                                                      Love my Echo!
                 5 31-Jul-18 Charcoal Fabric
                                                                           Loved it!
           2
                 4 31-Jul-18
                              Walnut Finish Sometimes while playing a game, you can answer...
           3
                 5 31-Jul-18 Charcoal Fabric
                                                I have had a lot of fun with this thing. My 4 ...
                 5 31-Jul-18 Charcoal Fabric
                                                                             Music
                                                                                          1
```

```
In [52]: data.shape
Out[52]: (3150, 5)
In [53]: data.isnull().sum()
Out[53]: rating
                             0
         date
                             0
                             0
         variation
         verified reviews
                             0
         feedback
                             0
         dtype: int64
In [26]: data.feedback.unique()
Out[26]: array([1, 0], dtype=int64)
In [27]: data.variation.unique()
Out[27]: array(['Charcoal Fabric ', 'Walnut Finish ', 'Heather Gray Fabric ',
                'Sandstone Fabric ', 'Oak Finish ', 'Black', 'White',
                'Black Spot', 'White Spot', 'Black Show', 'White Show',
                'Black Plus', 'White Plus', 'Configuration: Fire TV Stick',
                'Black Dot', 'White Dot'], dtype=object)
```

```
In [28]: sns.countplot(x='feedback',data=data,palette='magma')
```

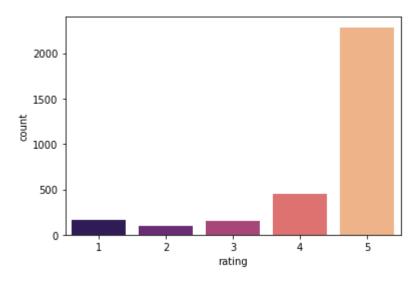
Out[28]: <matplotlib.axes._subplots.AxesSubplot at 0x13e1c5259b0>



From the above, we can observer that most of the reviwes are positive

```
In [29]: sns.countplot(x='rating',data=data,palette='magma')
```

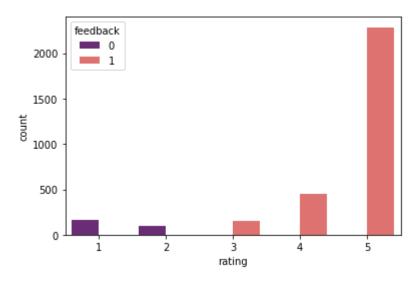
Out[29]: <matplotlib.axes._subplots.AxesSubplot at 0x13e1c464278>



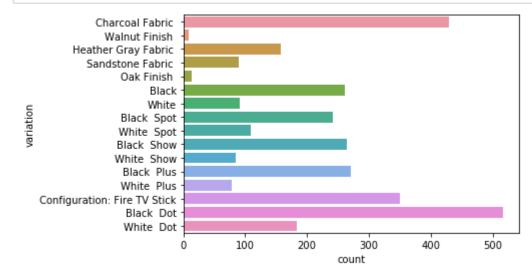
The distribution of rating from 1 to 5 is ahown above

In [30]: sns.countplot(x='rating',hue='feedback',data=data,palette='magma')

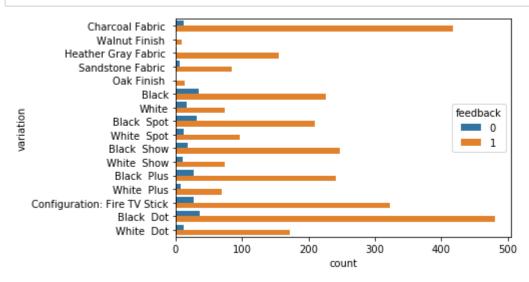
Out[30]: <matplotlib.axes._subplots.AxesSubplot at 0x13e1c3c1860>



In [31]: ax = sns.countplot(y="variation", data=data)



```
In [32]: ax = sns.countplot(y="variation", hue="feedback", data=data)
```



In [88]: data['Review_count'] = data['verified_reviews'].str.len()

In [89]: data.head()

Out[89]:

	rating	date	variation	verified_reviews	feedback	Review_count
0	5	31-Jul-18	Charcoal Fabric	Love my Echo!	1	13
1	5	31-Jul-18	Charcoal Fabric	Loved it!	1	9
2	4	31-Jul-18	Walnut Finish	Sometimes while playing a game, you can answer	1	195
3	5	31-Jul-18	Charcoal Fabric	I have had a lot of fun with this thing. My 4	1	172
4	5	31-Jul-18	Charcoal Fabric	Music	1	5

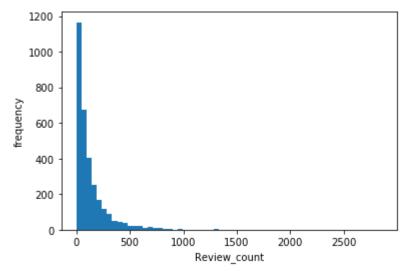
In [90]: data['Review_count'].max()

Out[90]: 2851

In [91]: | data[data['Review count']==2851]['verified reviews'].iloc[0]

Out[91]: "Incredible piece of technology. I have this right center of my living room on an island kitchen counter. The mic and speaker goes in every direction and the quality of the sound is quite good. I connected the Echo via Bluetooth to my Sony soundbar on my TV but find the Echo placement and 360 sound more appealing. It's no audi ophile equipment but there is good range and decent bass. The sound is more than adequate for any indoor ente rtaining and loud enough to bother neighbors in my building. The knob on the top works great for adjusting vo lume. This is my first Echo device and I would imagine having to press volume buttons (on the Echo 2) a large inconvenience and not as precise. For that alone I would recommend this over the regular Echo (2nd generatio n). The piece looks quality and is quite sturdy with some weight on it. The rubber material on the bottom has a good grip on the granite counter-- my cat can even rub her scent on it without tipping it over. This order c ame with a free Philips Hue Bulb which I installed along with an extra one I bought. I put the 2 bulbs into m y living room floor lamp, turned on the light, and all I had to do was say "Alexa, connect my devices 4;. The default names for each bulb was assigned as "First light" and "Second light", so I ca n have a dimmer floor lamp if I just turned on/off one of the lights by saying "Alexa, turn off the secon d light". In the Alexa app, I created a 'Group' with "First light" and "Second light" and named the group "The light", so to turn on the lamp with both bulbs shining I just say "Alexa, tu rn on The light".I was surprised how easily the bulbs connected to the Echo Plus with its built in hub. I thought I would have to buy a hub bridge to connect to my floor lamp power plug. Apparently there is some tec hnology built directly inside the bulb! I was surprised by that. Awesome.You will feel like Tony Stark on thi s device. I added quite a few "Skills" like 'Thunderstorm sounds' and 'Quote of the day' . Alexa alwa ys loads them up quickly. Adding songs that you hear to specific playlists on Amazon Music is also a great fe ature.I can go on and on and this is only my second day of ownership.I was lucky to buy this for \$100 on Prim e Day, but I think for \$150 is it pretty expensive considering the Echo 2 is only \$100. In my opinion, you wi ll be paying a premium for the Echo Plus and you have to decide if the value is there for you:1) Taller and 3 60 sound unit.2) Volume knob on top that you spin (I think this is a huge benefit over buttons)3) Built in hu b for Hue bulbs. After researching more, there are some cons to this setup if you plan on having more advance d light setups. For me and my floor lamp, it's just perfect.I highly recommend it and will buy an Echo dot fo r my bedroom now."

```
In [36]: plt.hist('Review_count',bins=60,data=data)
    plt.xlabel('Review_count')
    plt.ylabel('frequency')
    plt.show()
```



```
In [37]: data.hist(column='Review count', by='feedback', bins=50,figsize=(12,4))
Out[37]: array([<matplotlib.axes._subplots.AxesSubplot object at 0x00000013E228BD748>,
                  <matplotlib.axes. subplots.AxesSubplot object at 0x0000013E228E3CC0>],
                 dtype=object)
                                  0
                                                                                        1
            50
                                                               1200
                                                               1000
            40
                                                                800
            30
                                                                600
            20
                                                                400
            10
                                                                200
               0
                                                                     0
                                      1000
                                           1250
                                                 1500
                                                                                  1000
                                                                                                      2500
In [92]:
          import nltk
           from nltk.corpus import stopwords
           from wordcloud import WordCloud
           from nltk.stem import WordNetLemmatizer
           import string
           import re
           from nltk.tokenize import word tokenize
In [141]:
               ps=PorterStemmer()
               review=[ps.stem(word) for word in review if not word in set(stopwords.words('english'))]
               review=' '.join(review)
               corpus.append(review)
```

```
In [21]: def text_preprocess(mess):
    no_punc = [char for char in mess if char not in string.punctuation]
    no_punc = ''.join(no_punc)
    return [word for word in no_punc.split() if word.lower() not in stopwords.words('English')]

In [93]: # with out using split method 2
def text_preprocess(mess):
    no_punc = [char for char in mess if char not in string.punctuation]
    no_punc = ''.join(no_punc)
    no_spl_char = re.sub("[^A-Za-z]+"," ",no_punc)
    no_URL = re.sub(r'https?:\//\S*', '', no_spl_char)
```

#no_singlechar = [i for i in no_URL if len(i) > 1]

return [word for word in word_tokenize(no_URL) if len(word)>1 if word.lower() not in stopwords.words('English')]

In [94]: data['verified_reviews']=data['verified_reviews'].apply(text_preprocess)

In [95]: data.head(10)

Out[95]:

	rating	date	variation	verified_reviews	feedback	Review_count
0	5	31-Jul-18	Charcoal Fabric	[Love, Echo]	1	13
1	5	31-Jul-18	Charcoal Fabric	[Loved]	1	9
2	4	31-Jul-18	Walnut Finish	[Sometimes, playing, game, answer, question, c	1	195
3	5	31-Jul-18	Charcoal Fabric	[lot, fun, thing, yr, old, learns, dinosaurs,	1	172
4	5	31-Jul-18	Charcoal Fabric	[Music]	1	5
5	5	31-Jul-18	Heather Gray Fabric	[received, echo, gift, needed, another, Blueto	1	172
6	3	31-Jul-18	Sandstone Fabric	[Without, cellphone, use, many, features, iPad	1	365
7	5	31-Jul-18	Charcoal Fabric	[think, th, one, Ive, purchased, Im, working,	1	221
8	5	30-Jul-18	Heather Gray Fabric	[looks, great]	1	11
9	5	30-Jul-18	Heather Gray Fabric	[Love, listened, songs, heard, since, childhoo	1	114

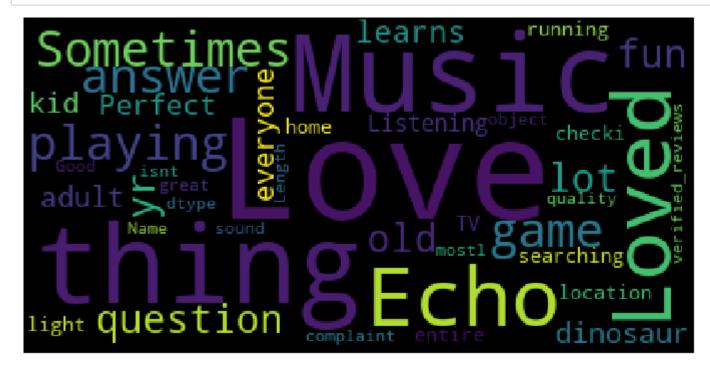
```
In [82]: data['verified_reviews'].loc[6]
Out[82]: ['Without',
           'cellphone',
           'use',
           'many',
           'features',
           'iPad',
           'see',
           'use',
           'great',
           'alarm',
           'almost',
           'deaf',
           'hear',
           'alarm',
           'bedroom',
           'living',
           'room',
           'reason',
           'enough',
           'keep',
           'herIt',
           'fun',
           'ask',
           'random',
           'questions',
           'hear',
           'response',
           'seem',
           'smartbon',
           'politics',
           'yet']
In [96]: w tokenizer = nltk.tokenize.WhitespaceTokenizer()
          lemmatizer =WordNetLemmatizer()
          def lemmatize_text(token_text):
              text = [lemmatizer.lemmatize(word) for word in token text]
              return text
In [97]: data['verified reviews']=data['verified reviews'].apply(lambda x: lemmatize text(x))
```

In [124]: data.head()

Out[124]:

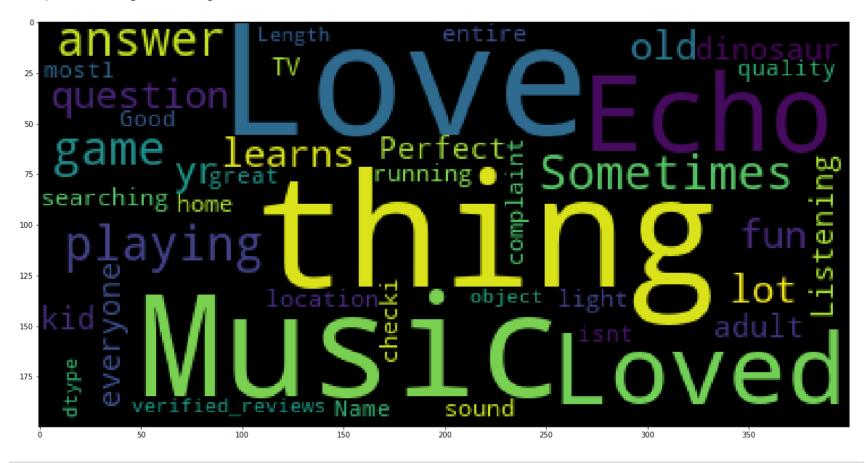
	rating	date	variation	verified_reviews	feedback	Review_count
0	5	31-Jul-18	Charcoal Fabric	[Love, Echo]	1	13
1	5	31-Jul-18	Charcoal Fabric	[Loved]	1	9
2	4	31-Jul-18	Walnut Finish	[Sometimes, playing, game, answer, question, c	1	195
3	5	31-Jul-18	Charcoal Fabric	[lot, fun, thing, yr, old, learns, dinosaur, c	1	172
4	5	31-Jul-18	Charcoal Fabric	[Music]	1	5

```
In [73]: text = str(data['verified_reviews'])
    wordcloud = WordCloud().generate(text)
    fig=plt.figure(figsize=(12,12))
    plt.imshow(wordcloud)
    plt.axis("off")
    plt.show()
```



```
In [30]: text = str(data['verified_reviews'])
    plt.figure(figsize=(20,200))
    wc=WordCloud().generate((text))
    plt.imshow(wc)
```

Out[30]: <matplotlib.image.AxesImage at 0x1dad2165d68>



In [11]: from sklearn.feature_extraction.text import TfidfVectorizer

```
In [98]: tfidf = TfidfVectorizer(tokenizer=lambda i:i, lowercase=False)
    X = tfidf.fit_transform(data['verified_reviews'])
    y=data.iloc[:,4].values
    print(tfidf.get_feature_names())
```

['ABC', 'ABSOLUTELY', 'AF', 'AI', 'AIs', 'ALARM', 'ALEXA', 'ALEXUS', 'ALLRecipes', 'AMAZING', 'AMAZON', 'ANNO YING', 'ANOTHER', 'ASAP', 'ASK', 'AV', 'AVAILABLE', 'Able', 'Absolutely', 'Absolutly', 'Ac', 'AccentThe', 'Ac cess', 'Acoustical', 'Acting', 'Actually', 'Adapter', 'Add', 'Added', 'Adding', 'Additionally', 'Affirmcom', 'Agent', 'Alabama', 'Alarm', 'Alarmbed', 'Alert', 'Alex', 'Alexa', 'AlexaAlso', 'AlexaEchoComputer', 'Alexa s', 'Alexathis', 'Alexi', 'Alexia', 'Alexis', 'Allows', 'Almost', 'Along', 'Alread', 'Already', 'Also', 'Alth ough', 'Always', 'Amazing', 'Amazingly', 'Amazon', 'AmazonAlexa', 'AmazonZigbee', 'Amazonia', 'Amazonmark', 'Amazons', 'Amazont', 'American', 'Americans', 'Android', 'Another', 'Answers', 'Ant', 'AnyList', 'Anyhow', 'Anypod', 'App', 'Apparently', 'Apple', 'Apps', 'Arlo', 'Arrived', 'Ask', 'Asked', 'Asking', 'Ass', 'Audibl e', 'Audio', 'August', 'Aunt', 'Awesome', 'AwesomeYou', 'BASIC', 'BEST', 'BETTER', 'BFF', 'BOSE', 'BROKEN', 'BT', 'BUY', 'Barrets', 'Barry', 'Baseball', 'Basic', 'Basically', 'Beautiful', 'Bedroom', 'Besides', 'Best', 'Better', 'Beyond', 'Bezos', 'Bible', 'Big', 'Bing', 'Birthday', 'Black', 'Blink', 'Bloods', 'Bloomberg', 'Bl ue', 'Blueprints', 'Bluetooth', 'Bob', 'Bolt', 'Bose', 'Bottom', 'Bought', 'Brand', 'Bridge', 'Briefing', 'Br itish', 'Brought', 'Buffet', 'Buildin', 'Built', 'Bulb', 'Bulbs', 'ButOMG', 'Buttons', 'Buy', 'Bye', 'CABLE', 'CANCEL', 'CART', 'CBS', 'CD', 'CDAlarm', 'CDs', 'CERTIFIED', 'CHANNELS', 'CHECK', 'CNN', 'COMPLETELY', 'CONN ECTED', 'CONVENIENT', 'COOL', 'CORDLESS', 'CORDLove', 'CPR', 'CREAPY', 'CSIMIAMIwithout', 'CUT', 'Call', 'Ca m', 'Came', 'Camelot', 'Cams', 'Cant', 'Carolina', 'Cent', 'Certified', 'Changing', 'Channels', 'Charlotte', 'Cheap', 'Christmas', 'Chromebook', 'Chromecast', 'Classic', 'Clear', 'Clearly', 'Clock', 'Cloud', 'Come', 'C omes', 'Commands', 'Compared', 'Completely', 'Computer', 'Conferencing', 'Connected', 'Connecting', 'Connecti vity', 'Connects', 'Considering', 'Contacted', 'Convenient', 'Cooks', 'Cool', 'Coop', 'Coordinator', 'Cord', 'Cost', 'Could', 'Couldnt', 'County', 'Cozi', 'Currently', 'Customer', 'DAUGHTERS', 'DEAL', 'DISAPPOINTED', 'DONT', 'DOT', 'DOTS', 'Dad', 'Dash', 'Daughter', 'Day', 'Days', 'Deals', 'Debating', 'Dec', 'Decent', 'Defin itely', 'Delivery', 'Den', 'Denon', 'Design', 'Despite', 'Device', 'Didnt', 'Digital', 'Direct', 'DirectTV', 'Directv', 'Disappointed', 'Disconnects', 'Discovery', 'Dish', 'Dislike', 'Ditched', 'Divertido', 'Doesnt', 'Dont', 'Dot', 'Dots', 'Doubtful', 'Download', 'Drop', 'Dropped', 'Dylan', 'EASY', 'ECHO', 'EEAANH', 'EQ', VENTS', 'EVER', 'EVERYTHING', 'EXCEPT', 'Ease', 'Easily', 'Easy', 'Echo', 'EchoDot', 'EchoNot', 'Echoand', 'E choesI', 'Echoplus', 'Echos', 'EcoBee', 'Ecoo', 'Effortless', 'Eh', 'Element', 'Ended', 'Endless', 'English', 'Enjoy', 'Enjoyed', 'Enjoying', 'Enough', 'Entering', 'Entertainment', 'Es', 'Especially', 'Este', 'Etc', 'Et ekcity', 'Ethernet', 'Even', 'Every', 'Everyone', 'Everything', 'Ex', 'Exactly', 'Example', 'Exceeded', 'Exce lente', 'Excellent', 'Exchange', 'Excited', 'Exho', 'Expectations', 'Expensive', 'Extremely', 'Extrimelly', 'FAIL', 'FAULT', 'FEE', 'FI', 'FIRE', 'FIRST', 'FRIEND', 'FUN', 'FW', 'Face', 'FaceTime', 'Failed', 'Fair', 'Fairly', 'False', 'Family', 'Fan', 'Fantastic', 'Fast', 'Father', 'Fathers', 'Favorite', 'Felt', 'Fidelity', 'Finally', 'Find', 'Fine', 'Fios', 'Fire', 'FireStick', 'Firestick', 'First', 'Fix', 'Flash', 'Followed', 'Fo otball', 'Forever', 'Fortunately', 'Fri', 'Friday', 'Full', 'Fun', 'Funny', 'Furthermore', 'GB', 'GE', 'GET', 'GF', 'GHZ', 'GHz', 'GO', 'GOES', 'GOING', 'GOOD', 'GREAT', 'Galaxy', 'Games', 'GameshowQuiz', 'GarbageEven', 'Gave', 'Gazebo', 'Gen', 'Generation', 'Get', 'Getting', 'Gift', 'Given', 'Glad', 'God', 'Godsend', 'Going', 'Good', 'Google', 'Googles', 'Got', 'Grab', 'Grace', 'Grandaughter', 'Granddaughter', 'Grandkids', 'Great', 'Greatest', 'Greatproduct', 'Green', 'Group', 'HAL', 'HANDY', 'HAPPY', 'HATE', 'HBO', 'HD', 'HDMI', 'HELL', 'HELP', 'HIGHLY', 'HUGE', 'HULU', 'HVAC', 'Haha', 'HahaAwesome', 'Half', 'Hands', 'Handy', 'Happy', 'Hard', 'Harmony', 'Harvard', 'Havent', 'Haywire', 'Help', 'Helps', 'Hey', 'Hi', 'Highly', 'Hmmmm', 'Hole', 'Holy', 'Home', 'Honestly', 'Hong', 'Hooked', 'Hopefully', 'Hours', 'However', 'Hub', 'Hue', 'Hulu', 'Husband', 'Hu t', 'IHeart', 'IM', 'INSTRUCTIONS', 'ISo', 'ITEM', 'ITyou', 'Id', 'Ideal', 'Ie', 'Ight', 'Iheart', 'Ill', 'Il lustrated', 'Im', 'Imhave', 'Immediately', 'Incorporated', 'Incredible', 'India', 'Infact', 'Initially', 'Ins tall', 'Installation', 'Installed', 'Instantaneous', 'Instantly', 'Instead', 'Instructions', 'Intercom', 'Int

ernational', 'Internet', 'Invasive', 'IoT', 'Iove', 'Ipad', 'Island', 'Italian', 'Italy', 'Item', 'Itiswhat', 'Ive', 'Jaws', 'Jeapordy', 'Jeff', 'Jeopardy', 'Jetsons', 'Jimmy', 'Johnny', 'Jokes', 'June', 'Kasa', 'KasaCa m', 'Keeps', 'Kids', 'Killer', 'Kindle', 'Kitchen', 'KitchenDen', 'Kodi', 'Kong', 'Kwikset', 'LATER', 'LED', 'LIKE', 'LINK', 'LOL', 'LO000000VE', 'LOVE', 'LOVES', 'Language', 'Large', 'Last', 'Lastly', 'Lately', 'Leani ng', 'Learned', 'Learning', 'Learns', 'Leary', 'Least', 'Lets', 'Light', 'Like', 'Liked', 'Lil', 'Lin k', 'Linked', 'Linking', 'Listen', 'Listening', 'Listens', 'Little', 'Loads', 'Lock', 'Logitech', 'Lol', 'Lon g', 'Looked', 'Looking', 'Looks', 'Lots', 'Louis', 'Love', 'Loved', 'Lovee', 'Loving', 'Luckily', 'Luv', 'Lyr ics', 'MOM', 'MONTHLY', 'MUST', 'Mac', 'Made', 'Madlibs', 'Mainly', 'Majel', 'Make', 'Makes', 'Making', 'Malo ne', 'Mama', 'Man', 'Many', 'May', 'Maybe', 'Meh', 'Menu', 'Met', 'Mexico', 'Mi', 'Mic', 'Microphone', 'Milli on', 'Mini', 'Moana', 'Mom', 'MonThu', 'Mother', 'Motown', 'Movies', 'Much', 'Multi', 'Music', 'MusicI', 'Mus icloveit', 'Must', 'Muy', 'NBC', 'NC', 'NEEDS', 'NETFLIX', 'NEVER', 'NEW', 'NFL', 'NPR', 'NSA', 'NY', 'NYNJ', 'Neat', 'Need', 'Needed', 'Needs', 'Nervana', 'Nest', 'Net', 'Netflix', 'Never', 'New', 'News', 'Nexia', 'Nex t', 'Nice', 'None', 'Nope', 'North', 'Note', 'Nothing', 'Numb', 'Nurses', 'OK', 'OPTIMUM', 'Office', 'Often', 'Oh', 'Omg', 'OnTraclike', 'One', 'Ony', 'Oops', 'Opening', 'Ordered', 'Original', 'Otherwise', 'Outstandin g', 'Overall', 'PAY', 'PERMANENTLY', 'PHENOMENAL', 'PHONE', 'PIA', 'PLAYLIST', 'PRESET', 'PRIME', 'PRODUCT', 'PRODUCTS', 'PRODUCTonce', 'Packing', 'Pandora', 'Part', 'People', 'Perfect', 'Perfectly', 'Perhaps', 'Person al', 'Philip', 'Philips', 'PhilipsHue', 'Phillips', 'Philly', 'Picture', 'Pizza', 'Plain', 'Planning', 'Pla y', 'Played', 'Playing', 'Plays', 'Please', 'Pleased', 'Plenty', 'Plug', 'Plugged', 'Plugs', 'Plus', 'Pluto', 'Poor', 'Possibly', 'Post', 'Powerful', 'Premium', 'Pretty', 'Price', 'Primarily', 'Prime', 'Pro', 'Probabl y', 'Product', 'Prompt', 'Pros', 'Proved', 'Purchase', 'Purchased', 'Put', 'Puts', 'QVC', 'Quality', 'Quick', 'Quote', 'REALLY', 'RECOMMEND', 'REFURBISHED', 'ROCKS', 'ROOMS', 'Radio', 'Ran', 'Ranger', 'Read', 'Ready', 'Really', 'Reason', 'Recently', 'Recommend', 'Recommended', 'Reconnecting', 'Red', 'Refurbish', 'Refurbishe d', 'Regular', 'Replaced', 'Replacement', 'Reset', 'Resetting', 'Resolution', 'Responds', 'Responsive', 'Retu rn', 'Returned', 'Returning', 'Review', 'Ridiculous', 'Right', 'Ring', 'Riversa', 'Roku', 'Room', 'SCROLLIN G', 'SEEM', 'SEEMS', 'SHOW', 'SHOWS', 'SIGNIFICANT', 'SIRI', 'SM', 'SMART', 'SNOOZE', 'SONS', 'SPAM', 'SPECIF ICALLY', 'SQYXTWrefcmcrrypprdttlsol', 'SSDI', 'STICK', 'STILL', 'Sad', 'Sadly', 'Samsung', 'SamsungGalaxy', 'Satisfied', 'Save', 'Saved', 'Say', 'Says', 'Scottish', 'Screen', 'Season', 'Second', 'Secret', 'Security', 'See', 'Seems', 'Sent', 'Seriously', 'Serius', 'Set', 'Setting', 'Setup', 'Shes', 'Shopping', 'Shouldnt', 'Sh ow', 'Showing', 'Showman', 'Shows', 'Showtime', 'Simple', 'Simply', 'Since', 'Single', 'Singley', 'Siri', 'Si rius', 'Sirriusxm', 'Six', 'Skills', 'Skype', 'Sling', 'Slowly', 'Small', 'Smaller', 'Smart', 'SmartThings', 'Smiths', 'Snell', 'Sometimes', 'Son', 'Sonos', 'Sony', 'Soon', 'Sopt', 'Sorry', 'Sound', 'SoundTouch', 'Soun ds', 'Southern', 'Spanish', 'SpanishI', 'Speak', 'Speaker', 'Speakers', 'Speech', 'Spent', 'Spot', 'SpotI', 'Spotify', 'Spotlight', 'Spots', 'Spotthen', 'Sprint', 'St', 'Star', 'Stark', 'Stars', 'Started', 'Starting', 'Step', 'Stick', 'Stickeasy', 'Still', 'Stopped', 'Streaming', 'Suffolk', 'Supberb', 'Super', 'SuperEasy', 'S uperb', 'Support', 'Supposed', 'Sure', 'Surprisingly', 'Sweet', 'Switched', 'Synced', 'TALK', 'TARDIS', 'TECH Y', 'THING', 'TPLink', 'TRYING', 'TV', 'TVAlexa', 'TVI', 'TVmovie', 'TVs', 'Takes', 'Talking', 'Tall', 'Talle r', 'Tap', 'Tasha', 'Tech', 'Technology', 'Tekkie', 'Tell', 'Terrible', 'Terrific', 'Texas', 'Text', 'Thank', 'Thanks', 'Thats', 'Theres', 'Thing', 'Things', 'Third', 'Thongs', 'Though', 'Thought', 'Thumbs', 'Thundersto rm', 'Thursday', 'TiVo', 'Timeyou', 'Told', 'Tons', 'Tony', 'Took', 'Tosca', 'Totally', 'Tower', 'Traffic', 'Training', 'Trek', 'Tremendous', 'Trending', 'Tried', 'Trivia', 'Try', 'Trying', 'Tube', 'Tubi', 'Tunes', 'T urn', 'Turned', 'Tv', 'Two', 'UNDERESTIMATED', 'UPDATE', 'USA', 'USB', 'USE', 'UTube', 'Ummm', 'Un', 'Unaccep table', 'Unbelievable', 'Understands', 'Unfortunately', 'Unit', 'Unless', 'Unlimited', 'Upgraded', 'Upon', 'U se', 'Used', 'Useful', 'Using', 'Usual', 'VLAN', 'VUDU', 'Value', 'Versatile', 'Verygod', 'Video', 'Videos',

'View', 'Voice', 'VoiceView', 'Voila', 'VoilaHaving', 'Voltson', 'Volume', 'WAITING', 'WATCH', 'WEAK', 'WEEKD AYS', 'WI', 'WORK', 'WORKS', 'WOW', 'Waited', 'Wakes', 'Waking', 'Walk', 'Want', 'Wanted', 'Wasnt', 'Waste', 'Watching', 'Way', 'Weak', 'Wealth', 'Webther', 'Web', 'Well', 'Wellmade', 'Went', 'Weve', 'Whats', 'White', 'WhitenbspGreat', 'WiFi', 'Wife', 'Wifi', 'Wikipedia', 'Wink', 'Wireless', 'Wish', 'Within', 'Without', 'Wond er', 'Wonderful', 'WooHoo', 'Work', 'Worked', 'Working', 'Workreat', 'Works', 'Worlds', 'Worth', 'Worthless', 'Worthy', 'Would', 'Wow', 'Xbox', 'Xfinity', 'YES', 'YOUTUBE', 'YOUTUBES', 'Yep', 'Yes', 'Yet', 'Yhe', 'Yor k', 'YouTube', 'YouTubeIt', 'Youre', 'Youtube', 'Yup', 'Zigbee', 'Zwave', 'Zzzzzzz', 'abay', 'abd', 'abilit y', 'able', 'abode', 'absolutely', 'ac', 'accent', 'acceptable', 'accepting', 'access', 'accessNeeds', 'acces sTo', 'accessable', 'accessible', 'accessing', 'accessory', 'accident', 'accidentally', 'accompanying', 'acco mplish', 'accomplished', 'according', 'accordingly', 'account', 'accuracy', 'accurate', 'accurately', 'accust om', 'acknowledge', 'across', 'act', 'acting', 'action', 'activate', 'activated', 'activates', 'activating', 'activation', 'actively', 'activity', 'actually', 'ad', 'adapted', 'adapter', 'adapting', 'add', 'added', 'ad dict', 'addicted', 'adding', 'addition', 'additional', 'addons', 'address', 'addressed', 'adept', 'adequate', 'adjacent', 'adjust', 'adjusting', 'adjustment', 'adjusts', 'admit', 'adopter', 'adorable', 'adult', 'advanc e', 'advanced', 'advantage', 'advertise', 'advertised', 'advertisement', 'advertising', 'advice', 'advise', 'advised', 'aesthetic', 'affirmation', 'afford', 'affordable', 'afraid', 'afternoon', 'afterwards', 'againI', 'againThis', 'age', 'ago', 'agoYesterday', 'agree', 'agreement', 'ahead', 'aide', 'aint', 'air', 'aka', 'al', 'alarm', 'alarmThis', 'alarmcom', 'albeit', 'alcohol', 'alert', 'alexa', 'alexas', 'alexia', 'algo', 'alive', 'allOverall', 'alleviate', 'alli', 'allinone', 'allow', 'allowed', 'allowing', 'allows', 'almost', 'alone', 'along', 'alongside', 'alot', 'alots', 'aloud', 'already', 'alright', 'also', 'altering', 'alternative', 'alt hough', 'always', 'amaonmazing', 'amaxing', 'amaze', 'amazed', 'amazin', 'amazing', 'amazingly', 'amazon', 'a mbient', 'among', 'amount', 'amozon', 'amplifier', 'amused', 'amusing', 'analog', 'ands', 'angle', 'annoyin g', 'another', 'answer', 'answered', 'answering', 'anticipate', 'anticipated', 'antitechnology', 'anybody', 'anymore', 'anyone', 'anypod', 'anything', 'anythingI', 'anytime', 'anyway', 'anyways', 'anywhere', 'apartmen t', 'app', 'apparent', 'apparently', 'apparentlyLong', 'appealing', 'appear', 'appears', 'apple', 'applianc e', 'application', 'appointment', 'appointmentsI', 'appon', 'appreciated', 'apprehensive', 'approaching', 'ap propriate', 'approximately', 'apps', 'area', 'arent', 'argue', 'argument', 'arises', 'arlo', 'arm', 'around', 'aroundno', 'array', 'arrive', 'arrived', 'arriving', 'article', 'artist', 'artistbut', 'as', 'asap', 'ase', 'ask', 'askMy', 'asked', 'askes', 'asking', 'asleep', 'aspect', 'aspectsa', 'assigned', 'assist', 'assistanc e', 'assistant', 'assume', 'assumed', 'assuming', 'assumption', 'atenci', 'atmosphere', 'atr', 'attach', 'att ached', 'attachment', 'attempt', 'attempted', 'attempting', 'attention', 'attractive', 'audible', 'audibleI', 'audio', 'audioApple', 'audiobook', 'audiobooks', 'audiophile', 'aunt', 'auto', 'automatic', 'automatically', 'automation', 'aux', 'auxiliary', 'avail', 'availability', 'available', 'avoid', 'awake', 'aware', 'away', 'a wesome', 'awesomeunderstands', 'awful', 'awhile', 'awkward', 'awsome', 'baby', 'back', 'backThe', 'backgroun d', 'backyard', 'bad', 'baffle', 'baffled', 'ball', 'ban', 'band', 'bandwagon', 'bandwidth', 'bang', 'bar', 'bare', 'barely', 'bargain', 'bark', 'barn', 'base', 'based', 'basement', 'basic', 'basically', 'bass', 'bath room', 'batman', 'battery', 'bc', 'beam', 'beat', 'beautiful', 'beautifully', 'beauty', 'became', 'becausse', 'become', 'becomes', 'becoming', 'bed', 'bedMany', 'bedroom', 'bedside', 'bedtime', 'beefy', 'begin', 'beginn er', 'beginning', 'begun', 'behaved', 'behind', 'believe', 'believer', 'bell', 'belong', 'benefit', 'beside', 'best', 'bestand', 'bet', 'beta', 'better', 'betterBesides', 'bettter', 'beyond', 'bezel', 'bf', 'bible', 'bi g', 'bigger', 'biggest', 'bill', 'billboard', 'birth', 'birthday', 'birthdayOnly', 'bit', 'bizarre', 'black', 'blanket', 'blast', 'blasting', 'blessing', 'blind', 'blink', 'blocking', 'blow', 'blown', 'blue', 'bluetoot h', 'blurring', 'board', 'boat', 'body', 'bolt', 'bonkers', 'bonus', 'book', 'booksThe', 'boom', 'boombox',

'booming', 'boost', 'boring', 'born', 'bos', 'bose', 'bot', 'bother', 'bothered', 'bothersome', 'bottom', 'bo ugh', 'bought', 'box', 'boyfriend', 'brand', 'brandnew', 'brandunlimited', 'bread', 'break', 'breakfast', 'br eeze', 'bridge', 'brief', 'briefing', 'bright', 'brightness', 'bring', 'bringing', 'broadway', 'broke', 'brok en', 'brought', 'buck', 'buddy', 'budget', 'buffer', 'buffering', 'bug', 'bugging', 'building', 'built', 'bui ltin', 'bulb', 'bulbsWhat', 'buld', 'bulky', 'bummed', 'bunch', 'bundle', 'bundled', 'burn', 'business', 'bus y', 'butNOT', 'buts', 'button', 'buy', 'buyI', 'buyWe', 'buyer', 'buying', 'buzzing', 'bye', 'cable', 'calend ar', 'call', 'called', 'calling', 'calm', 'calmer', 'cam', 'cambiar', 'camera', 'camera', 'campus', 'canary', 'cancel', 'canceling', 'cancelled', 'cant', 'capabilitiesbut', 'capability', 'capable', 'capacity', 'capasit y', 'car', 'card', 'cardsRotate', 'care', 'carefully', 'careless', 'carful', 'carrier', 'carry', 'cartoon', 'case', 'cat', 'catch', 'category', 'cause', 'caused', 'cave', 'cease', 'ceiling', 'ceilingsCons', 'celebs', 'cell', 'cellphone', 'cent', 'center', 'certain', 'certainly', 'certified', 'chachki', 'chair', 'chairlazines s', 'chalk', 'challenge', 'challenged', 'champ', 'chance', 'change', 'changed', 'changer', 'changing', 'chann el', 'channelsMust', 'characteristic', 'charge', 'chargeable', 'charger', 'charging', 'charm', 'charmed', 'ch art', 'chat', 'chatting', 'cheap', 'cheaper', 'cheapest', 'check', 'checked', 'checking', 'child', 'childhoo d', 'chocolate', 'choice', 'choose', 'choosing', 'choppy', 'chore', 'chose', 'chosen', 'circle', 'citizen', 'city', 'clapper', 'clarity', 'class', 'classical', 'classroom', 'clean', 'cleaner', 'cleaning', 'clear', 'cl earAlexa', 'clearFor', 'clearer', 'clearly', 'click', 'client', 'clip', 'clock', 'clockHome', 'clockalarmradi o', 'clocking', 'clockradio', 'clone', 'close', 'closed', 'closer', 'clothes', 'cloud', 'clue', 'coast', 'cod e', 'coffeeetc', 'cohesive', 'collection', 'collector', 'college', 'colon', 'color', 'comands', 'combinatio n', 'combine', 'combined', 'come', 'comeletely', 'comfort', 'comfortable', 'comforting', 'coming', 'command', 'commandbut', 'commanded', 'commandsIm', 'comment', 'commercial', 'commodity', 'common', 'communicate', 'comm unicated', 'communicating', 'communication', 'community', 'commute', 'commuteIf', 'como', 'compacity', 'compa ct', 'companion', 'company', 'comparable', 'compare', 'compared', 'compatible', 'competition', 'complacated I', 'complain', 'complainI', 'complained', 'complaining', 'complaint', 'complaintNo', 'complete', 'complete d', 'completely', 'complicated', 'compliment', 'component', 'compound', 'computer', 'con', 'concept', 'concer n', 'concerned', 'concerning', 'concise', 'condition', 'conditioning', 'conectado', 'conferencing', 'confiden t', 'configure', 'configured', 'conflict', 'confused', 'confuses', 'confusing', 'confusionI', 'connect', 'con nected', 'connectedWell', 'connecting', 'connectingcheck', 'connection', 'connectivity', 'connectivityit', 'c onnects', 'conscious', 'consider', 'considering', 'consistent', 'consistently', 'conspiracy', 'constant', 'co nstantly', 'constructed', 'consulting', 'consumer', 'contact', 'contacted', 'contains', 'content', 'continou s', 'continually', 'continue', 'continues', 'continuous', 'continuously', 'control', 'controll', 'controlle d', 'controller', 'controlling', 'convenience', 'convenient', 'conversation', 'convert', 'convinced', 'cook', 'cooking', 'cool', 'coolBONUS', 'cooler', 'coolest', 'cord', 'cordThank', 'cordless', 'core', 'correct', 'cor rected', 'correctly', 'corresponds', 'cortna', 'cost', 'cotton', 'couch', 'could', 'couldnt', 'counter', 'cou ntless', 'country', 'couple', 'course', 'courseAlexa', 'cousin', 'cover', 'covered', 'coworker', 'cracked', 'crackling', 'crap', 'crappy', 'crash', 'crashed', 'crashing', 'crazy', 'create', 'created', 'credited', 'cre epy', 'crib', 'crisp', 'critically', 'cropping', 'cross', 'crunchyroll', 'cualquier', 'cue', 'culas', 'cumber some', 'cup', 'current', 'currently', 'cursed', 'curve', 'custom', 'customer', 'customizable', 'customizatio n', 'customize', 'cut', 'cute', 'cutie', 'cutting', 'cycle', 'cycled', 'cylinder', 'cylindercal', 'dad', 'dai ly', 'damage', 'dance', 'dancing', 'dare', 'dark', 'darn', 'dash', 'data', 'date', 'dated', 'daughter', 'da y', 'dayUsed', 'daytoday', 'de', 'deactivate', 'dead', 'deaf', 'deal', 'dealSet', 'debating', 'decent', 'deci de', 'decided', 'decides', 'decision', 'deck', 'decor', 'decorated', 'decrease', 'dedicated', 'deep', 'deepe r', 'default', 'defaultKaren', 'defeat', 'defective', 'defectiveThis', 'defence', 'defently', 'definately',

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it', 'five', 'fix', 'fixed', 'fixedI', 'fixing', 'fixture', 'flash', 'flat', 'flaw', 'flawless', 'flawlessl y', 'flexibility', 'flexible', 'flickering', 'floor', 'floored', 'fm', 'folk', 'follow', 'followed', 'font', 'foot', 'football', 'footprint', 'force', 'forecast', 'forever', 'forget', 'forgot', 'forgotten', 'forjust', 'form', 'forth', 'forum', 'forward', 'found', 'four', 'fourth', 'free', 'freeze', 'frequently', 'friend', 'fr iendly', 'front', 'frustrated', 'frustrating', 'frustration', 'full', 'fuller', 'fullfledged', 'fullsize', 'f ullsized', 'fully', 'fumble', 'fun', 'funIt', 'funSometimes', 'funciona', 'funcionamiento', 'funciones', 'fun ction', 'functionEvery', 'functionality', 'funmusic', 'funny', 'funnybut', 'fussing', 'fussy', 'future', 'gad get', 'gadgetDrives', 'gain', 'game', 'gaming', 'gap', 'garage', 'garbage', 'gateway', 'gather', 'gathering', 'gave', 'ge', 'geared', 'geek', 'gen', 'gender', 'general', 'generally', 'generation', 'generationThe', 'geni al', 'genre', 'geo', 'geofencing', 'get', 'getting', 'ghost', 'ghz', 'gift', 'girl', 'girlfriend', 'give', 'g iven', 'giving', 'gizmo', 'glad', 'glaring', 'glass', 'glitch', 'glitching', 'glorified', 'glow', 'go', 'goin g', 'golden', 'gone', 'good', 'goodSincerely', 'goodSome', 'goodmorning', 'goodness', 'goody', 'googl e', 'googled', 'got', 'gotten', 'government', 'grab', 'grand', 'grandchild', 'grandchildrenwho', 'granddaught er', 'grandfather', 'grandkids', 'grandmother', 'grandparent', 'grandson', 'granite', 'granted', 'graphic', 'gratamente', 'great', 'greatHaving', 'greatI', 'greatThe', 'greatWith', 'greater', 'greatest', 'greatit', 'g reatly', 'greatvideo', 'green', 'greeting', 'grip', 'gripe', 'grocery', 'groggy', 'ground', 'group', 'growin g', 'grownup', 'grows', 'guarantee', 'guaranteeing', 'guard', 'guess', 'guest', 'guide', 'guilty', 'guy', 'ha bit', 'habla', 'hadnt', 'haha', 'hahahaha', 'hair', 'half', 'hallway', 'hand', 'handle', 'handled', 'handsfre e', 'handy', 'hang', 'happen', 'happened', 'happening', 'happens', 'happensThe', 'happier', 'happy', 'hard', 'hardcore', 'harder', 'hardly', 'hasnt', 'hassel', 'hassle', 'hate', 'hated', 'hauler', 'haveThe', 'havelov e', 'havent', 'hcfe', 'hd', 'hdm', 'he', 'head', 'headline', 'headphone', 'healing', 'hear', 'heard', 'hearin g', 'hears', 'heart', 'heaven', 'heavy', 'heavyso', 'heck', 'hectic', 'held', 'helful', 'hell', 'help', 'help Using', 'helped', 'helper', 'helpful', 'helping', 'hence', 'herIt', 'hernot', 'hesitant', 'hesitate', 'hesita ted', 'hey', 'hiccup', 'hide', 'high', 'higher', 'highest', 'highly', 'hint', 'hire', 'hired', 'hiring', 'his tory', 'hit', 'hmm', 'hmmm', 'hold', 'holder', 'holding', 'hole', 'holiday', 'home', 'homeI', 'homeWhat', 'ho mescreen', 'homework', 'honest', 'honestly', 'hook', 'hooked', 'hope', 'hoped', 'hopefully', 'hoping', 'horri ble', 'horse', 'hospital', 'hosting', 'hot', 'hotel', 'hour', 'house', 'houseDo', 'houseThe', 'household', 'h ousethe', 'however', 'hr', 'httpswwwamazoncomdpB', 'hub', 'hubbed', 'hubby', 'hubsThe', 'hue', 'huele', 'hug e', 'human', 'humour', 'hundred', 'husband', 'hype', 'iHeartRadio', 'iMusic', 'iPad', 'iPads', 'iPhone', 'iTu nes', 'id', 'idea', 'ifs', 'ignored', 'ignoring', 'ihome', 'ii', 'im', 'image', 'imagination', 'imagine', 'im agined', 'immediately', 'impaired', 'impede', 'imperfection', 'implementing', 'important', 'importantly', 'im pressed', 'impressive', 'improve', 'improved', 'improvement', 'improving', 'impulse', 'imrproved', 'inabilit y', 'inactivity', 'include', 'included', 'includedplease', 'includes', 'including', 'inclusive', 'income', 'i nconvenience', 'inconvenient', 'increase', 'increasing', 'incredible', 'incredibly', 'indicated', 'indicate r', 'indispensable', 'individual', 'individually', 'indoor', 'indundated', 'industry', 'inexpensive', 'inexpe rience', 'inferior', 'info', 'infoDot', 'information', 'informative', 'informed', 'infotainment', 'initial', 'initially', 'initiate', 'inline', 'innovative', 'input', 'insanely', 'insanity', 'insert', 'inside', 'insis t', 'inspired', 'install', 'installation', 'installed', 'installing', 'installs', 'instant', 'instantly', 'in stead', 'instruction', 'integrate', 'integrated', 'integrates', 'integrating', 'integration', 'intelagence', 'inteligente', 'intelligent', 'intend', 'intended', 'intendedI', 'intention', 'interact', 'interacting', 'int eraction', 'interactive', 'intercom', 'interest', 'interested', 'interesting', 'interface', 'interfacing', 'i nterference', 'interferes', 'intermittent', 'intermittently', 'internal', 'internet', 'interpret', 'interroga ted', 'interrupt', 'interruption', 'intimidating', 'introduce', 'introducing', 'introduction', 'intrusive',

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ially', 'offing', 'often', 'oh', 'ok', 'okay', 'ol', 'old', 'older', 'oldest', 'olor', 'onceProblem', 'one', 'oneHonestly', 'oneIt', 'onetill', 'onetime', 'online', 'onme', 'onoff', 'onto', 'oops', 'open', 'opened', 'o pening', 'opera', 'operate', 'operation', 'operator', 'opinion', 'opportunity', 'opt', 'optical', 'option', 'optionMoreover', 'optional', 'orange', 'orchestra', 'order', 'ordered', 'ordering', 'organization', 'organiz ed', 'orientation', 'oriented', 'original', 'originale', 'originally', 'others', 'otherwise', 'outdoor', 'out doors', 'outlet', 'output', 'outrageous', 'outside', 'outsideThis', 'outsmart', 'outstanding', 'oven', 'overT his', 'overa', 'overall', 'overcoming', 'overdriven', 'overheating', 'overpriced', 'override', 'overtime', 'o verview', 'overwhelming', 'owe', 'owlhead', 'owned', 'owner', 'ownershipI', 'owning', 'package', 'packagePerh aps', 'packaged', 'packaging', 'packing', 'page', 'pageI', 'pagesThe', 'paid', 'pain', 'pair', 'paired', 'pai ring', 'pamphlet', 'pandora', 'pant', 'paper', 'par', 'paranoid', 'pare', 'parent', 'parentseasy', 'park', 'p aroduct', 'parti, 'participating', 'particular', 'particularly', 'partner', 'party', 'pas', 'password', 'pas t', 'patch', 'patience', 'patient', 'patio', 'pattern', 'pause', 'pay', 'payed', 'paying', 'pc', 'pel', 'pe n', 'pencil', 'penny', 'people', 'pep', 'per', 'perdi', 'perfect', 'perfectI', 'perfectly', 'perfectlyVery', 'perfecto', 'perform', 'performance', 'performed', 'performing', 'performs', 'period', 'perk', 'permanently', 'persist', 'person', 'personal', 'personality', 'personalization', 'personalized', 'personally', 'persuasio n', 'pet', 'phase', 'phenomenal', 'philip', 'phone', 'phoneand', 'phonetically', 'photo', 'photograph', 'phra se', 'pic', 'pick', 'picked', 'picking', 'pickup', 'picky', 'picture', 'piece', 'pin', 'pivoting', 'pixelate d', 'place', 'placed', 'placement', 'placing', 'plain', 'plan', 'plane', 'planning', 'platform', 'play', 'pla yed', 'player', 'playing', 'playingI', 'playlist', 'playlistI', 'playlistsWhats', 'pleasantly', 'please', 'pl eased', 'pleasedSimple', 'pleasure', 'plenty', 'plug', 'plugged', 'plughas', 'plugin', 'plugins', 'plus', 'pl usminus', 'plusprimeetc', 'pm', 'pod', 'podcast', 'podcasts', 'point', 'pointed', 'pointless', 'pointlessI', 'politics', 'pool', 'poop', 'poor', 'pop', 'porch', 'porchthe', 'port', 'portability', 'portable', 'portion', 'posed', 'position', 'positive', 'possibility', 'possible', 'possibly', 'post', 'poster', 'potential', 'poun d', 'power', 'powercord', 'powerful', 'practical', 'practically', 'practicalthan', 'pray', 'preciously', 'pre cise', 'prefer', 'preference', 'preferred', 'preinstalled', 'premium', 'prepare', 'preparing', 'present', 'pr eset', 'press', 'presumably', 'prettier', 'pretty', 'prevent', 'prevents', 'preview', 'previous', 'previousl y', 'price', 'priced', 'pricey', 'pricing', 'primarily', 'primary', 'prime', 'primeday', 'print', 'prior', 'p rivacy', 'prize', 'pro', 'probably', 'problem', 'problemI', 'procedure', 'process', 'produc', 'product', 'pro ductBut', 'productEcho', 'productSuggested', 'productThere', 'producto', 'productsAnd', 'productwas', 'profil e', 'program', 'programing', 'programmed', 'programming', 'project', 'projection', 'promised', 'promoting', 'promotion', 'promotionand', 'promp', 'prompt', 'prop', 'proper', 'properly', 'properlyno', 'protected', 'pro tection', 'protocol', 'prove', 'proved', 'provee', 'provide', 'provided', 'provider', 'provides', 'providin g', 'psychological', 'pueden', 'pull', 'pulling', 'pulsate', 'pulsed', 'punch', 'puny', 'pup', 'pur', 'purcha se', 'purchased', 'purchaser', 'purchasesI', 'purchasing', 'pure', 'purely', 'purpose', 'push', 'pushed', 'pu t', 'putting', 'puzzled', 'quality', 'qualty', 'que', 'qued', 'query', 'question', 'questionable', 'questions Hands', 'questionsIt', 'questionsneed', 'quick', 'quicker', 'quickly', 'quiet', 'quit', 'quite', 'quiz', 'quo tnotificationquot', 'radio', 'radioalarmIt', 'rain', 'rainand', 'rainbow', 'rainsoaked', 'raised', 'rambled', 'ran', 'random', 'randomly', 'range', 'rapidez', 'rare', 'rarely', 'rarity', 'rate', 'rather', 'rating', 'rat tlecrackle', 'rattling', 'rcieved', 'rd', 'reach', 'reached', 'reaching', 'reactive', 'read', 'reader', 'read ing', 'readingglasses', 'ready', 'real', 'realizando', 'realize', 'realized', 'realizing', 'really', 'reaso n', 'reasonable', 'reauthorize', 'reboot', 'rebooted', 'rebooting', 'reboots', 'reccomend', 'receivded', 'rec eive', 'received', 'receiver', 'receiving', 'recent', 'recently', 'reception', 'rechargeable', 'recharged', 'recipe', 'recipient', 'recognition', 'recognize', 'recognizes', 'recomendable', 'recommend', 'recommended',

'recommending', 'reconditioned', 'reconnect', 'reconnected', 'reconnecting', 'record', 'recorded', 'recordin g', 'recurring', 'red', 'reduced', 'redundant', 'refer', 'reference', 'referred', 'refers', 'refined', 'refun d', 'refurb', 'refurbished', 'refurbishedThought', 'refurbishing', 'refurbs', 'regard', 'regardless', 'region al', 'register', 'registered', 'regret', 'regular', 'regularly', 'related', 'relatively', 'relaxing', 'rela y', 'release', 'released', 'reliable', 'relief', 'rely', 'remaining', 'remains', 'remedial', 'remember', 'rem emberI', 'remembering', 'remind', 'reminded', 'reminder', 'reminding', 'reminds', 'remorse', 'remote', 'remot eno', 'rename', 'rent', 'renting', 'reoccurring', 'reorder', 'rep', 'repair', 'repeat', 'repeated', 'repeatin g', 'repertoire', 'replace', 'replaced', 'replacement', 'replaces', 'replacing', 'replied', 'replying', 'repo rt', 'reported', 'reportsAlarm', 'reputation', 'request', 'requesting', 'require', 'required', 'requires', 'r erecordings', 'research', 'researched', 'researching', 'resembling', 'resemption', 'reset', 'resetting', 'res ist', 'resistant', 'resolution', 'resolve', 'resolved', 'respond', 'responding', 'responds', 'response', 'res ponsive', 'responsiveAlexa', 'responsivecan', 'responsiveness', 'respuesta', 'rest', 'restart', 'restrictio n', 'restrictive', 'result', 'resultsThe', 'resume', 'retired', 'return', 'returned', 'returnef', 'returnin g', 'review', 'reviewing', 'revise', 'reward', 'rid', 'ride', 'ridiculous', 'ridiculously', 'right', 'ring', 'road', 'rock', 'roku', 'roll', 'room', 'roomOther', 'roomYou', 'roomba', 'roomfilling', 'roomkitchen', 'rota te', 'rotates', 'rotation', 'rotationsSwipe', 'rough', 'round', 'route', 'router', 'routine', 'routinely', 'r ow', 'rst', 'rub', 'rubber', 'run', 'running', 'sad', 'safe', 'said', 'sale', 'salsa', 'sang', 'sanity', 'sat ellite', 'satisfied', 'satisified', 'save', 'saved', 'saving', 'savvy', 'savy', 'saw', 'say', 'saying', 'says but', 'scared', 'scene', 'scent', 'schedule', 'scheduled', 'scheduling', 'school', 'schoolThe', 'science', 's cooped', 'score', 'scoured', 'scratch', 'scratched', 'screamig', 'screaming', 'screen', 'screenMaybe', 'scree nSelect', 'screenless', 'screensAnother', 'screw', 'script', 'scroll', 'scrolling', 'se', 'sealed', 'seam', 'seamless', 'seamlessNOT', 'seamlessly', 'search', 'searching', 'second', 'secretary', 'section', 'security', 'see', 'seeing', 'seem', 'seemed', 'seems', 'seen', 'seldom', 'select', 'selection', 'self', 'selfies', 'sel 1', 'selling', 'semana', 'semi', 'send', 'sending', 'sends', 'senior', 'sense', 'sensitive', 'sensitivity', 'sent', 'sentence', 'separate', 'separately', 'series', 'serious', 'seriously', 'serve', 'serve d', 'service', 'servicesCant', 'set', 'setting', 'settingsHome', 'settins', 'settle', 'setup', 'sever', 'seve ral', 'sewing', 'sf', 'shaking', 'shape', 'sharing', 'sharp', 'shell', 'shelled', 'shes', 'shifting', 'shin e', 'shining', 'ship', 'shipment', 'shipped', 'shipping', 'shippingthank', 'shocked', 'shooting', 'shop', 'sh opping', 'shoppingto', 'short', 'shortcoming', 'shorted', 'shorter', 'shortly', 'shouldnt', 'shout', 'show', 'showI', 'shower', 'showering', 'showing', 'shown', 'showno', 'showsIt', 'sht', 'shuffle', 'shut', 'shuts', 'shutting', 'sibling', 'side', 'sigh', 'sight', 'sign', 'silly', 'silver', 'similar', 'simple', 'simpler', 's implicity', 'simplified', 'simplify', 'simply', 'simultaneously', 'sin', 'since', 'sing', 'singing', 'singl e', 'sink', 'sinqued', 'siri', 'sister', 'sit', 'site', 'sits', 'sitting', 'situation', 'six', 'size', 'sizeM y', 'sized', 'skeptical', 'skill', 'skillsjust', 'skip', 'sleek', 'sleep', 'sleeper', 'sleeping', 'sleepy', 'sliced', 'slide', 'slideshow', 'slight', 'slightly', 'slow', 'slowly', 'small', 'smaller', 'smart', 'smartbo n', 'smarter', 'smarthome', 'smartphone', 'smartthing', 'smell', 'smooth', 'smoothly', 'snap', 'snarl', 'snea ky', 'snooze', 'snoozed', 'soaking', 'soccer', 'social', 'socket', 'sofa', 'softly, 'softly', 'software', 'sol d', 'solely', 'solid', 'solo', 'soluci', 'solution', 'solved', 'solves', 'somebody', 'somehow', 'someone', 's omething', 'sometime', 'sometimes', 'somewhat', 'son', 'song', 'songsnot', 'soninlaw', 'soon', 'sooner', 'soo o', 'sooooo', 'soooooo', 'sorely', 'sorprendi', 'sorry', 'sort', 'sortof', 'soso', 'sound', 'soundGood', 'so undI', 'soundIt', 'soundWhat', 'soundbar', 'sounded', 'sounding', 'soundlink', 'source', 'southern', 'spa', 'space', 'spacethe', 'spacing', 'spam', 'span', 'spanking', 'spark', 'speak', 'speaker', 'speakerI', 'speaker stereo', 'speaking', 'speaknspell', 'speaks', 'speaktakes', 'spec', 'special', 'specially', 'specific', 'spec

ifically', 'specifily', 'specify', 'specifying', 'spectacular', 'speech', 'speed', 'speedy', 'spell', 'spelli ng', 'spend', 'spending', 'spent', 'spielI', 'spilled', 'spin', 'split', 'spoiled', 'spoke', 'spoken', 'spor t', 'spot', 'spotify', 'spouse', 'sprinkler', 'spur', 'spying', 'squarerectangular', 'squirm', 'sry', 'st', 'staff', 'stage', 'staging', 'stair', 'stand', 'standalone', 'standard', 'standing', 'standsoutlikeasorethum b', 'star', 'starsI', 'start', 'started', 'starting', 'stat', 'state', 'statement', 'station', 'stationary', 'stationed', 'stay', 'stayed', 'staying', 'steaming', 'steep', 'stellar', 'step', 'stepMy', 'stereo', 'stic k', 'stickWorks', 'still', 'stimulus', 'stink', 'stoled', 'stop', 'stopped', 'storage', 'store', 'storm', 'st ory', 'stove', 'straight', 'straightforward', 'strange', 'stream', 'streaming', 'streamline', 'strictly', 'st ring', 'strip', 'strong', 'strongly', 'structure', 'struggle', 'stubborn', 'stuck', 'student', 'stuff', 'stum p', 'stupid', 'sturdy', 'style', 'stylish', 'su', 'sub', 'subject', 'subpar', 'subscriber', 'subscribing', 's ubscription', 'subscriptionDoes', 'subsequently', 'substitute', 'success', 'successful', 'successfully', 'suc cessor', 'suck', 'suffer', 'sufficient', 'suggest', 'suggested', 'suggesting', 'suggestion', 'suggests', 'sui table', 'summoning', 'sunroom', 'super', 'superb', 'superior', 'supplied', 'supplying', 'support', 'supporte d', 'supporting', 'suppose', 'supposed', 'sure', 'surely', 'surface', 'surprise', 'surprised', 'surprising', 'surprisingly', 'surroundlike', 'survived', 'sweet', 'swell', 'swipe', 'swiping', 'switch', 'switched', 'swit ching', 'sync', 'syncd', 'synced', 'synching', 'syncing', 'system', 'table', 'tablet', 'tad', 'tailor', 'tak e', 'taken', 'taking', 'tale', 'talk', 'talked', 'talking', 'tall', 'tap', 'tape', 'taping', 'tapped', 'tas k', 'taskThe', 'teacher', 'team', 'tear', 'tec', 'techie', 'technical', 'technically', 'technician', 'techno', 'technologically', 'technology', 'technologyI', 'techwe', 'teenager', 'teeth', 'telephone', 'televi sion', 'tell', 'telling', 'temp', 'temperature', 'tempting', 'ten', 'tend', 'tends', 'terminology', 'terribl e', 'terrificI', 'test', 'tested', 'testing', 'text', 'tg', 'tge', 'th', 'thank', 'thanks', 'thatI', 'thatW e', 'thats', 'theEcho', 'theater', 'theme', 'theory', 'there', 'therefore', 'thermostat', 'thermostatand', 't hestandbase', 'thete', 'theyre', 'thick', 'thing', 'thingmy', 'thingsBUY', 'thingsIt', 'think', 'thinking', 'third', 'thirdparty', 'thisWon', 'thong', 'thorough', 'thoroughly', 'thou', 'though', 'thought', 'thousand', 'three', 'thrilled', 'throughout', 'thrown', 'thru', 'thunderstorm', 'ti', 'tickled', 'tie', 'tiempo horainformaci', 'tiene', 'til', 'till', 'time', 'timer', 'timermusic', 'timersthe', 'timework', 'timing', 'ti n', 'ting', 'tinker', 'tinkering', 'tinny', 'tiny', 'tip', 'tipping', 'tired', 'title', 'tocomplain', 'toda', 'today', 'toddler', 'together', 'toilet', 'told', 'tomorrow', 'tomy', 'ton', 'tone', 'took', 'tool', 'tooth', 'top', 'topic', 'total', 'totally', 'totally', 'tou', 'touch', 'touching', 'touted', 'toward', 'towards', 't ower', 'town', 'toy', 'tplink', 'track', 'traditional', 'traffic', 'trailer', 'trained', 'trainee', 'trainin g', 'transferring', 'trav', 'travel', 'traveling', 'travelling', 'treadmill', 'treat', 'treble', 'trek', 'tri al', 'trick', 'tricky', 'tried', 'trigger', 'trip', 'trivia', 'trouble', 'troublefree', 'troubleshooting', 't roublesome', 'troubling', 'true', 'trueSetting', 'truly', 'trust', 'try', 'trying', 'tube', 'tulos', 'tune', 'tunein', 'turn', 'turned', 'turning', 'tv', 'tvit', 'tweeter', 'twice', 'twist', 'twitter', 'two', 'twoThi s', 'ty', 'type', 'typeThe', 'typed', 'typical', 'typically', 'typing', 'u', 'udefulness', 'ugly', 'uhyour', 'unable', 'unavailable', 'unbelievable', 'uncle', 'understand', 'understandIm', 'understanding', 'understand s', 'understood', 'unexpected', 'unfortunately', 'unhappy', 'unhelpful', 'unico', 'unimportant', 'uninstallre installreconfigure', 'unique', 'unit', 'universal', 'unless', 'unlike', 'unlimited', 'unlocking', 'unnannounc ed', 'unnecessary', 'unobtrusive', 'unplug', 'unplugged', 'unresponsive', 'unsettling', 'untapped', 'unusabl e', 'unused', 'unwitty', 'unwrapped', 'upA', 'upcoming', 'update', 'updated', 'updatesIt', 'updating', 'updow n', 'upgrade', 'upgraded', 'upgrading', 'upgreade', 'upload', 'uplove', 'upon', 'upset', 'upsetting', 'upstai rs', 'urge', 'us', 'usable', 'usage', 'usde', 'use', 'useI', 'useamazing', 'used', 'useful', 'usefulHalf', 'u sejust', 'useless', 'user', 'usesSometimes', 'using', 'usual', 'usually', 'utility', 'utilizaci', 'utilize',

'utilizing', 'v', 'vacation', 'vacuum', 'value', 'variant', 'variety', 'various', 'vast', 'vehicle', 'verba l', 'verbalize', 'verbally', 'versa', 'versaI', 'versatile', 'versatility', 'verse', 'version', 'versus', 've tted', 'vez', 'via', 'vibrating', 'vice', 'viceo', 'video', 'videoseven', 'view', 'viewed', 'viewing', 'viewi ngIt', 'vintage', 'viola', 'virtual', 'virtually', 'visa', 'visible', 'vision', 'visit', 'visiting', 'visua l', 'visuals', 'voice', 'voicecontrollable', 'voltage', 'volume', 'volumeYou', 'wait', 'waited', 'waiting', 'wake', 'wakeup', 'wakeword', 'waking', 'walk', 'walked', 'walking', 'wall', 'want', 'wantHad', 'wantWe', 'wa nted', 'wanting', 'warehouse', 'warning', 'warns', 'warranty', 'wasconcerned', 'wasnt', 'waste', 'wasted', 'w atch', 'watched', 'watching', 'water', 'waterIts', 'wattage', 'wave', 'waveIt', 'way', 'weak', 'wealth', 'wea r', 'weary', 'weather', 'weathera', 'web', 'website', 'wedding', 'week', 'weekday', 'weekend', 'weekly', 'wei ght', 'weird', 'welcome', 'well', 'wellAll', 'wellFour', 'wellGood', 'wellequalized', 'wellintegrated', 'wen t', 'werent', 'weve', 'whatever', 'whats', 'whatsoever', 'whe', 'whenever', 'whenif', 'wherever', 'whether', 'whisper', 'whistle', 'white', 'who', 'whole', 'whose', 'wide', 'widespread', 'wife', 'wifi', 'wikipedia', 'w illing', 'wind', 'window', 'wireless', 'wish', 'wished', 'wishing', 'withDislikes', 'within', 'without', 'wok e', 'woken', 'wonder', 'wonderful', 'wonderfully', 'wont', 'woofer', 'word', 'work', 'workarounds', 'workat', 'worked', 'working', 'workingAlexa', 'workout', 'world', 'worried', 'worry', 'worseDon', 'worst', 'worth', 'w orthless', 'would', 'wouldnt', 'writes', 'writing', 'wrong', 'x', 'xm', 'yale', 'yard', 'yeah', 'year', 'year old', 'yell', 'yelling', 'yellow', 'yes', 'yesterday', 'yet', 'youd', 'youll', 'young', 'younger', 'younges t', 'youre', 'youtube', 'yr', 'zero', 'zigbee', 'zonkedout', 'zwave', 'zzzz']

```
In [104]: | from sklearn.metrics import classification_report,confusion_matrix,precision_score,recall_score,f1_score,accu
          racy score
          print(classification_report(y_test,y_pred))
          print('\n')
          print('\n')
          print('Confusion Matrix',confusion_matrix(y_test,y_pred))
          print('\n')
          print('\n')
          print('Accuracy Score',accuracy_score(y_test,y_pred))
          print('\n')
          print('\n')
          print('Precision Score', precision_score(y_test, y_pred))
          print('\n')
          print('\n')
          print('Recall Score', recall_score(y_test, y_pred))
          print('\n')
          print('\n')
          print('F1 Score',f1 score(y test,y pred))
```

	precision	recall	f1-score	support
0	0.00	0.00	0.00	76
1	0.92	1.00	0.96	869
accuracy			0.92	945
macro avg	0.46	0.50	0.48	945
weighted avg	0.85	0.92	0.88	945

Confusion Matrix [[0 76] [0 869]]

Accuracy Score 0.9195767195767196

Precision Score 0.9195767195767196

Recall Score 1.0

F1 Score 0.958103638368247

C:\Users\arvak\Anaconda3\lib\site-packages\sklearn\metrics_classification.py:1221: UndefinedMetricWarning: P recision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_divi sion` parameter to control this behavior.

_warn_prf(average, modifier, msg_start, len(result))

Conclusion and Future work: