CS 1699 HW5
Justin Long – JJL90

The code for part 1 and 2 of this assignment can be found here:
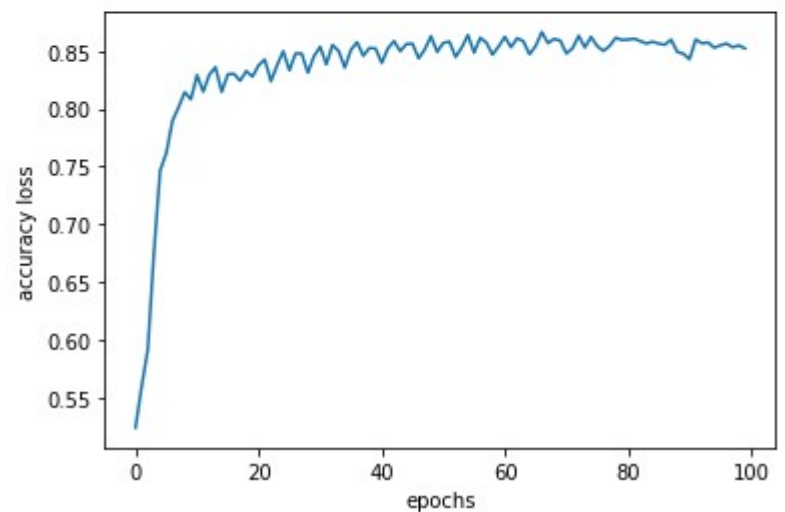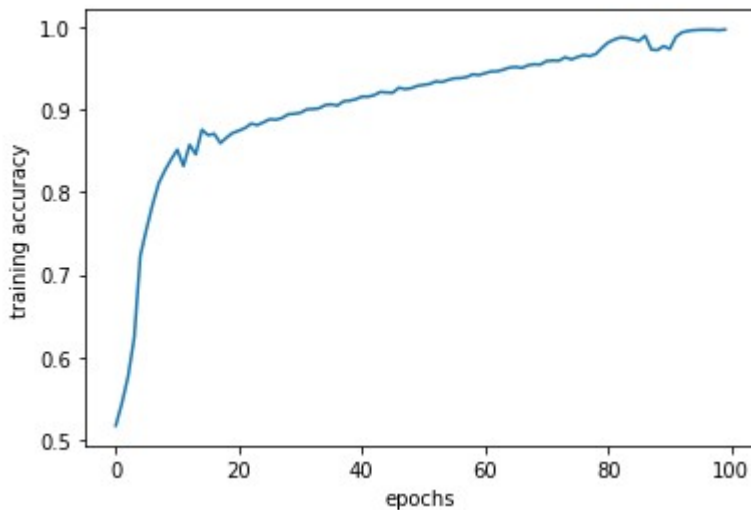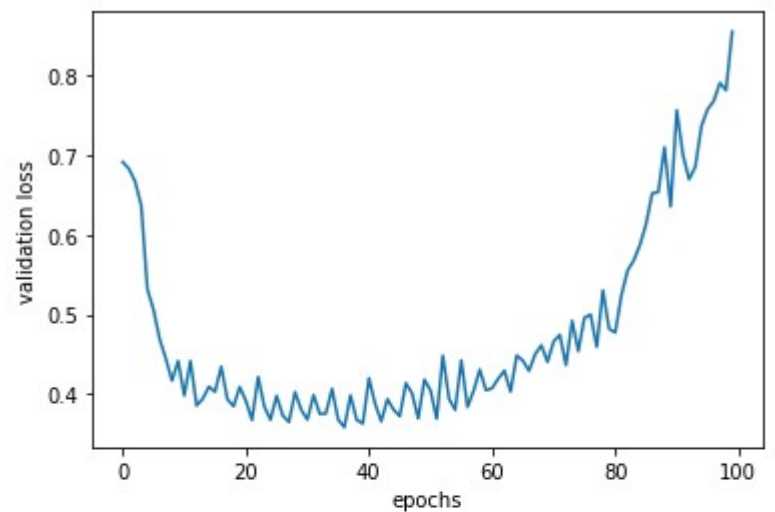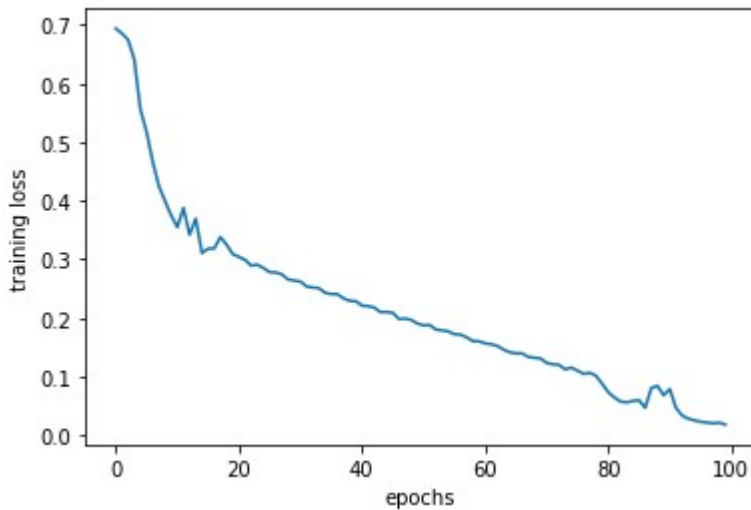https://colab.research.google.com/drive/1BYVie1jxpKuVApMkjuIh72YAupIF6751

NOTE:
I will be using all remaining late credit (72 hours) for this assignment

Part 1.

1.

LSTMCell

```
Total Parameters: 91200
Model Architecture:
SentimentClassification(
      (embedding): Embedding(4835, 128, padding_idx=0)
      (rnn_model): LSTMCell(input_size=128, hidden_size=100, bias=True)
      (classifier): Linear(in_features=100, out_features=2, bias=True)
)
Best validation accuracy: 0.8330
```
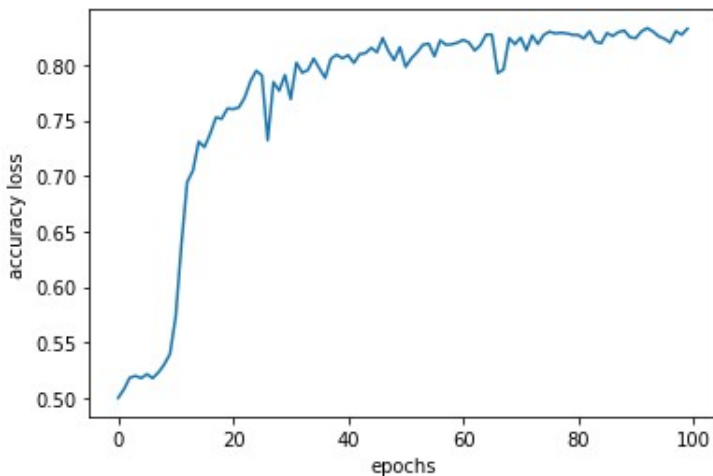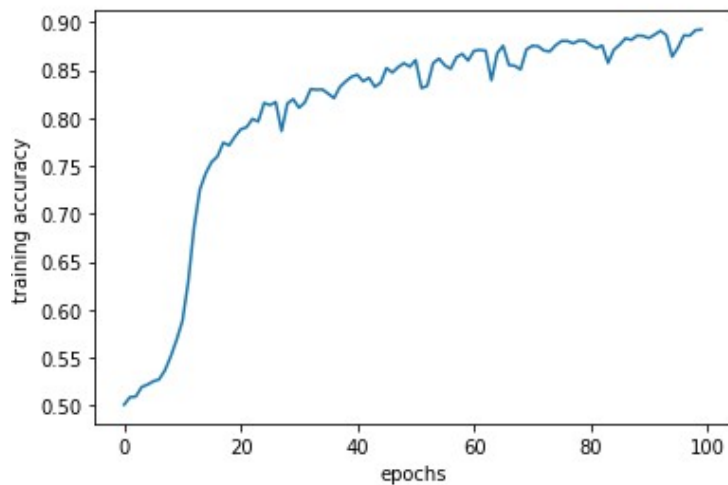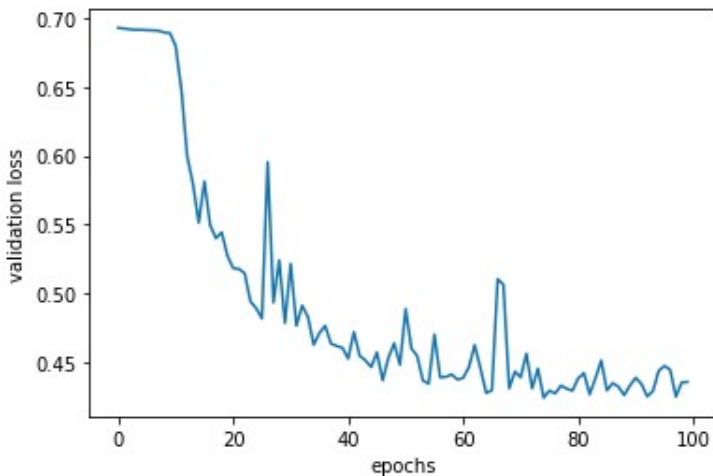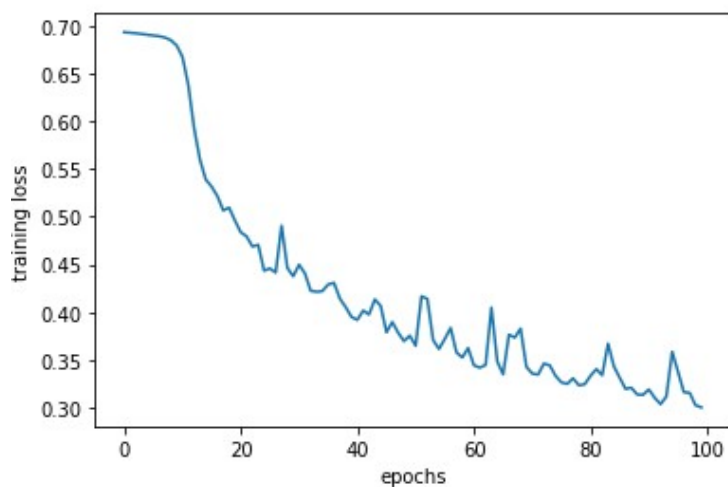
PeepholedLSTMCell

```
Total Parameters: 108400
Model Architecture:
SentimentClassification(
      (embedding): Embedding(4835, 128, padding_idx=0)
      (rnn_model): PeepholedLSTMCell(input_size=128, hidden_size=100,
      bias=True)
      (classifier): Linear(in_features=100, out_features=2, bias=True)
)
```

Best validation accuracy: 0.8436

CoupledLSTM

```
Total Parameters: 91200 Model Architecture:
SentimentClassification(
     (embedding): Embedding(4835, 128, padding_idx=0)
     (rnn_model): CoupledLSTMCell(input_size=128, hidden_size=100, bias=True)
     (classifier): Linear(in_features=100, out_features=2, bias=True)
)
```
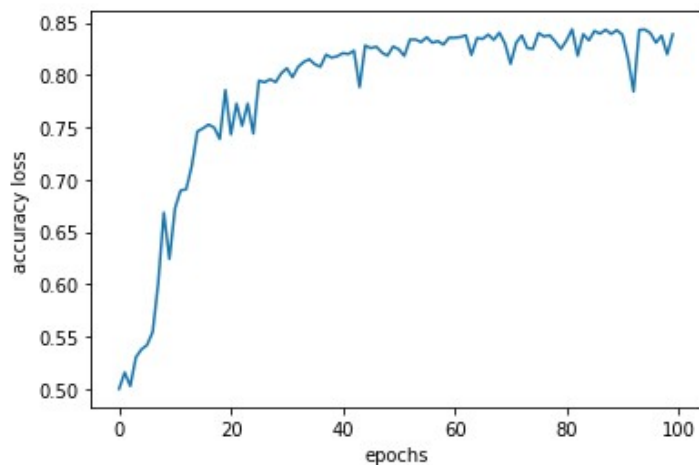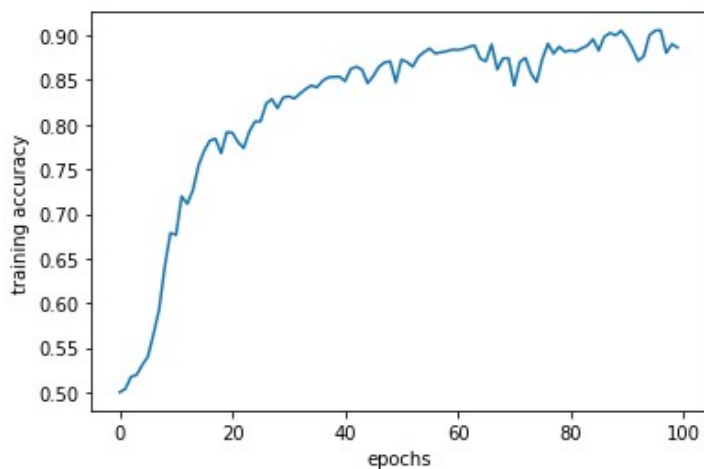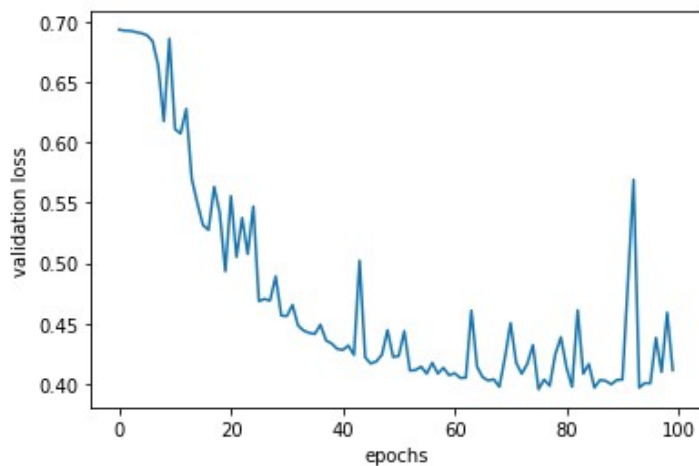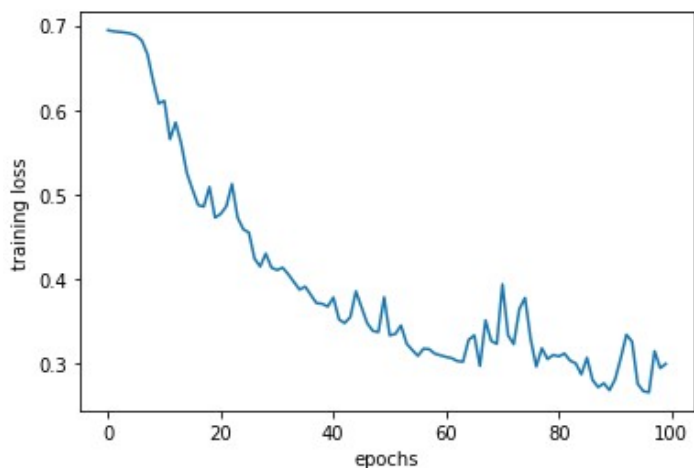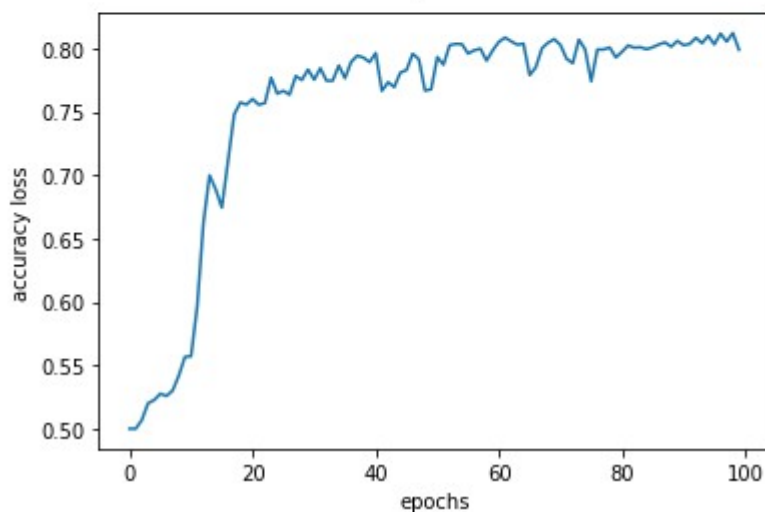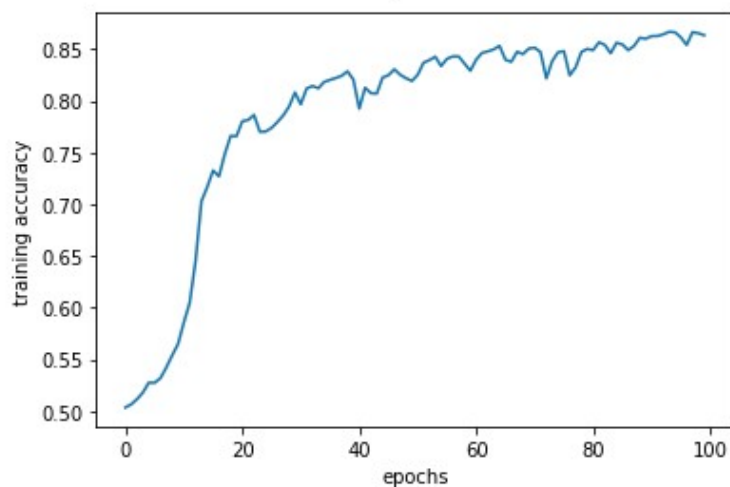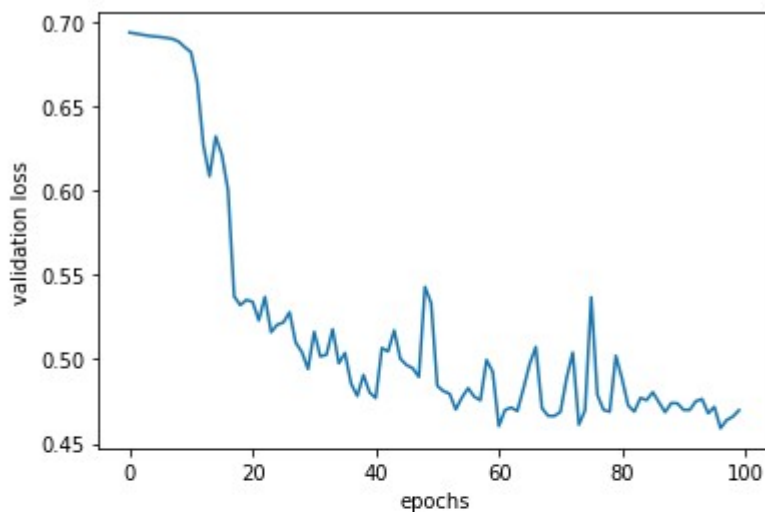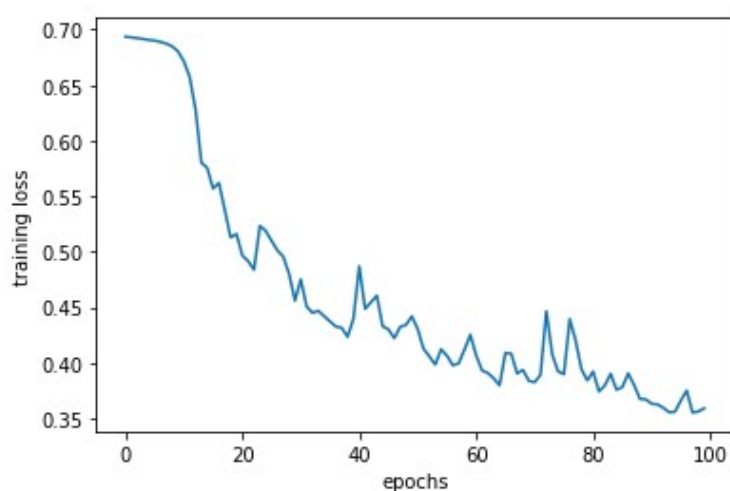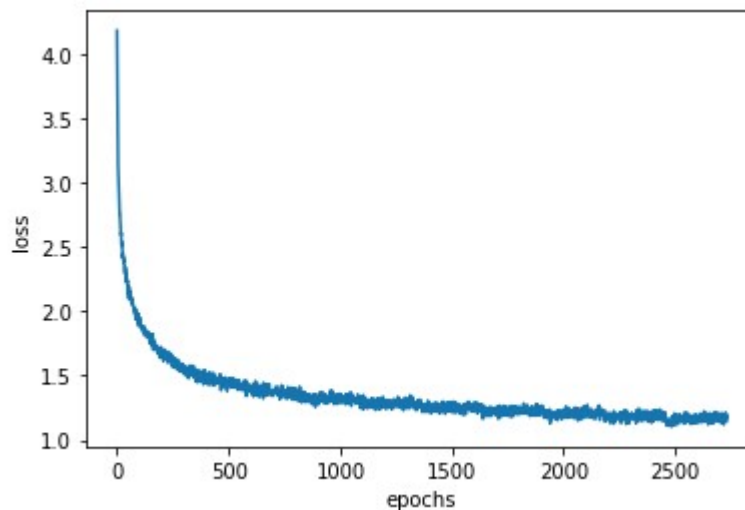
Best validation accuracy: 0.8120

Part 2.

```
Train dataset: 1115293
Total Parameters: 1179648
Model Architecture: SentenceGeneration(
      (embedding): Embedding(65, 256, padding_idx=0)
      (rnn_model): GRUCell(input_size=256, hidden_size=512, bias=True)
      (classifier): Linear(in_features=512, out_features=65, bias=True)
)
```



```
ROMEO:
Away, if the untrumper of that woman,
That we have presprides, on the callet did.
Hath well I love me leave of does.
Ah, when he's so full of high jewel of noble?
Wear of Marcius, Jesil; the news and put
dilly forfeither Aufidius with patience:
An old harries and fashion beg thee;
And yet the king so happy? if you, that I
Was my king, although up for a little garments,
I challenge when some's come-by that dealing.

GLOUCESTER:
Please you; farewell. Go, come to thee; go on,
And obscent to hear; his promised sleep,
To save them that is beef to lose your father. Warwick
will; seeb, kept knows not, sweet God were eternal.
This friend duke may for your dukedom as they'le;
The likes workest King Henry's gaunt i' thine,
And make me walled. My death I lave his son. Please, men she's done.
An oracle, where I have laid may pursuping him;
And he that fail down mad double faming?

BRUTUS:
But this is Claudio.
```

LoWBBBURY:
Ant, my lord, and Edward had it in all my feet:
The westor, may mine honours than resolve,
And my punishing curchase, of it
I act to fall him as mere like inlexate:
Urge his health, the Angel of Crriaps.
How with him
They'lo have eads bodes on my bords; so present
Hath been how more villain.

DUKE VINCENTIO:
An she hath slewith a very king, then.

ROMEO:
'Tis foul true, and thou delight in it. I am.
Ah, Camillo, 'tis now to ready thyself.
Now since it can him that is tears.

Nurse:
I have had made voices, bulk-boyb-soldies said there
Even to this.

AUTOLYCUS:
'Tis no harm, and am to poise; and be gone,
Not out, good plafely in me? if thou drawn some
commanded, so some form they are you stoop's deed.
Know for the fish; I'll try by your noble certain's;
And let list to claim our foes on many.

But, Corie$:
Here comes here, Pompey. Apble him myself;
But I am cure my name? there's more hands.

LUCIO:
A gentler kind of his.

MARIANA:
Let's to, your son ask you for me as she
Than as this unto me like to be sour'd;
Come home to go. The polecture yea; he leam,
And let

Part 3.

I coded some of the assignment but could not get it working. If there is any way the code could be put online after the assignment because I really want to know the answer and I am little upset with myself that I could not get it to work.