

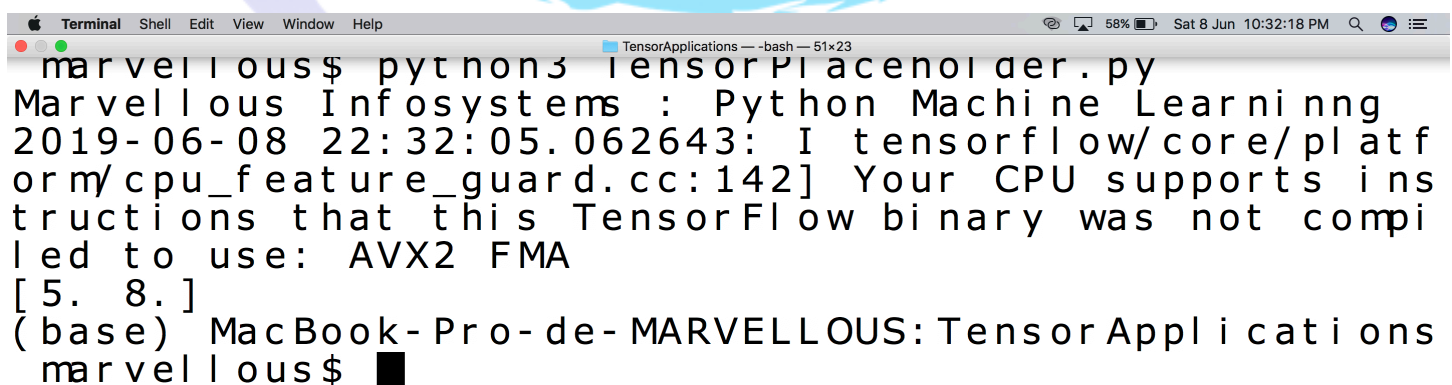
# Deep Learning

## Application 4

TensorFlow application which creates two nodes which are placeholder and perform addition operation and run it with the session.

```
1 import tensorflow as tf
2
3 print("Marvellous Infosystems : Python Machine Learning")
4
5 #Build computational graph
6 node1 = tf.compat.v1.placeholder(tf.float32)
7 node2 = tf.compat.v1.placeholder(tf.float32)
8
9 output = node1 + node2
10
11 # Run computational graph
12 subj = tf.compat.v1.Session()
13
14 print(subj.run(output,{node1:[1,3],node2:[4,5]}))
15
16 subj.close()
17
```

### Output of above application



```
marvellous$ python3 tensorPlaceholder.py
Marvellous Infosystems : Python Machine Learning
2019-06-08 22:32:05.062643: I tensorflow/core/platform/cpu_feature_guard.cc:142] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX2 FMA
[5. 8.]
(base) MacBook-Pro-de-MARVELLOUS:TensorApplications
marvellous$
```