PS C:\r\transfer learning> & C:/Users/ASUS-PC/AppData/Local/Programs/Python/Python36/python.exe "c:/r/transfer learning/cus.py"

Using TensorFlow backend.

WARNING:tensorflow:From C:\Users\ASUS-PC\AppData\Local\Programs\Python\Python36\lib\site-packages\tensorflow\python\framework\op\_def\_library.py:263: colocate\_with (from tensorflow.python.framework.ops) is deprecated and will be removed in a future version.

Instructions for updating:

Colocations handled automatically by placer.

WARNING:tensorflow:From C:\Users\ASUS-PC\AppData\Local\Programs\Python\Python36\lib\site-packages\keras\backend\tensorflow\_backend.py:3445: calling dropout (from tensorflow.python.ops.nn\_ops) with keep\_prob is deprecated and will be removed in a future version.

Instructions for updating:

Please use `rate` instead of `keep\_prob`. Rate should be set to `rate = 1 - keep\_prob`.

2019-03-10 19:12:44.478782: I tensorflow/core/platform/cpu\_feature\_guard.cc:141] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX2

2019-03-10 19:12:44.684503: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1433] Found device 0 with properties:

name: GeForce RTX 2070 major: 7 minor: 5 memoryClockRate(GHz): 1.62

pciBusID: 0000:01:00.0

totalMemory: 8.00GiB freeMemory: 6.59GiB

2019-03-10 19:12:44.690932: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1512] Adding visible gpu devices: 0

2019-03-10 19:12:45.141484: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:984] Device interconnect StreamExecutor with strength 1 edge matrix:

2019-03-10 19:12:45.145592: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:990] 0

2019-03-10 19:12:45.148008: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1003] 0: N

2019-03-10 19:12:45.150684: I tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1115] Created TensorFlow device (/job:localhost/replica:0/task:0/device:GPU:0 with 6317 MB memory) -> physical GPU (device: 0, name: GeForce RTX 2070, pci bus id: 0000:01:00.0, compute capability: 7.5)

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Layer (type) Output Shape Param #

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conv2d\_1 (Conv2D) (None, 128, 128, 32) 896

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leaky\_re\_lu\_1 (LeakyReLU) (None, 128, 128, 32) 0

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conv2d\_2 (Conv2D) (None, 128, 128, 32) 9248

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leaky\_re\_lu\_2 (LeakyReLU) (None, 128, 128, 32) 0

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conv2d\_3 (Conv2D) (None, 128, 128, 32) 9248

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leaky\_re\_lu\_3 (LeakyReLU) (None, 128, 128, 32) 0

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max\_pooling2d\_1 (MaxPooling2 (None, 64, 64, 32) 0

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dropout\_1 (Dropout) (None, 64, 64, 32) 0

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conv2d\_4 (Conv2D) (None, 64, 64, 32) 9248

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leaky\_re\_lu\_4 (LeakyReLU) (None, 64, 64, 32) 0

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conv2d\_5 (Conv2D) (None, 64, 64, 32) 9248

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leaky\_re\_lu\_5 (LeakyReLU) (None, 64, 64, 32) 0

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conv2d\_6 (Conv2D) (None, 64, 64, 32) 9248

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leaky\_re\_lu\_6 (LeakyReLU) (None, 64, 64, 32) 0

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max\_pooling2d\_2 (MaxPooling2 (None, 32, 32, 32) 0

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depthwise\_conv2d\_1 (Depthwis (None, 32, 32, 32) 320

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leaky\_re\_lu\_7 (LeakyReLU) (None, 32, 32, 32) 0

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batch\_normalization\_1 (Batch (None, 32, 32, 32) 128

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conv2d\_7 (Conv2D) (None, 32, 32, 32) 1056

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leaky\_re\_lu\_8 (LeakyReLU) (None, 32, 32, 32) 0

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batch\_normalization\_2 (Batch (None, 32, 32, 32) 128

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depthwise\_conv2d\_2 (Depthwis (None, 32, 32, 32) 320

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leaky\_re\_lu\_9 (LeakyReLU) (None, 32, 32, 32) 0

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batch\_normalization\_3 (Batch (None, 32, 32, 32) 128

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conv2d\_8 (Conv2D) (None, 32, 32, 32) 1056

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leaky\_re\_lu\_10 (LeakyReLU) (None, 32, 32, 32) 0

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batch\_normalization\_4 (Batch (None, 32, 32, 32) 128

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conv2d\_9 (Conv2D) (None, 32, 32, 64) 18496

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leaky\_re\_lu\_11 (LeakyReLU) (None, 32, 32, 64) 0

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conv2d\_10 (Conv2D) (None, 32, 32, 64) 36928

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leaky\_re\_lu\_12 (LeakyReLU) (None, 32, 32, 64) 0

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conv2d\_11 (Conv2D) (None, 32, 32, 64) 36928

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leaky\_re\_lu\_13 (LeakyReLU) (None, 32, 32, 64) 0

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conv2d\_12 (Conv2D) (None, 32, 32, 64) 36928

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leaky\_re\_lu\_14 (LeakyReLU) (None, 32, 32, 64) 0

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max\_pooling2d\_3 (MaxPooling2 (None, 16, 16, 64) 0

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dropout\_2 (Dropout) (None, 16, 16, 64) 0

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conv2d\_13 (Conv2D) (None, 16, 16, 64) 36928

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leaky\_re\_lu\_15 (LeakyReLU) (None, 16, 16, 64) 0

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conv2d\_14 (Conv2D) (None, 16, 16, 64) 36928

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leaky\_re\_lu\_16 (LeakyReLU) (None, 16, 16, 64) 0

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conv2d\_15 (Conv2D) (None, 16, 16, 64) 36928

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leaky\_re\_lu\_17 (LeakyReLU) (None, 16, 16, 64) 0

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conv2d\_16 (Conv2D) (None, 16, 16, 64) 36928

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leaky\_re\_lu\_18 (LeakyReLU) (None, 16, 16, 64) 0

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max\_pooling2d\_4 (MaxPooling2 (None, 8, 8, 64) 0

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flatten\_1 (Flatten) (None, 4096) 0

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dropout\_3 (Dropout) (None, 4096) 0

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dense\_1 (Dense) (None, 1024) 4195328

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dropout\_4 (Dropout) (None, 1024) 0

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dense\_2 (Dense) (None, 512) 524800

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dropout\_5 (Dropout) (None, 512) 0

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dense\_3 (Dense) (None, 256) 131328

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dropout\_6 (Dropout) (None, 256) 0

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dense\_4 (Dense) (None, 128) 32896

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dense\_5 (Dense) (None, 24) 3096

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Total params: 5,214,840

Trainable params: 5,214,584

Non-trainable params: 256

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Found 26547 images belonging to 24 classes.

Found 26445 images belonging to 24 classes.

WARNING:tensorflow:From C:\Users\ASUS-PC\AppData\Local\Programs\Python\Python36\lib\site-packages\tensorflow\python\ops\math\_ops.py:3066: to\_int32 (from tensorflow.python.ops.math\_ops) is deprecated and will be removed in a future version.

Instructions for updating:

Use tf.cast instead.

Epoch 1/30

2019-03-10 19:12:51.459647: I tensorflow/stream\_executor/dso\_loader.cc:152] successfully opened CUDA library cublas64\_100.dll locally

156/156 [==============================] - 119s 761ms/step - loss: 2.6679 - acc: 0.1615 - val\_loss: 2.2232 - val\_acc: 0.3286

Epoch 2/30

156/156 [==============================] - 111s 711ms/step - loss: 1.4974 - acc: 0.4825 - val\_loss: 1.8082 - val\_acc: 0.4492

Epoch 3/30

156/156 [==============================] - 111s 710ms/step - loss: 0.9108 - acc: 0.6909 - val\_loss: 1.6434 - val\_acc: 0.5643

Epoch 4/30

156/156 [==============================] - 111s 712ms/step - loss: 0.6719 - acc: 0.7812 - val\_loss: 1.4750 - val\_acc: 0.6133

Epoch 5/30

156/156 [==============================] - 111s 710ms/step - loss: 0.5157 - acc: 0.8340 - val\_loss: 1.5537 - val\_acc: 0.6378

Epoch 6/30

156/156 [==============================] - 111s 714ms/step - loss: 0.4271 - acc: 0.8688 - val\_loss: 1.4964 - val\_acc: 0.6366

Epoch 7/30

156/156 [==============================] - 111s 710ms/step - loss: 0.3839 - acc: 0.8812 - val\_loss: 1.4668 - val\_acc: 0.6416

Epoch 8/30

156/156 [==============================] - 111s 710ms/step - loss: 0.3149 - acc: 0.9050 - val\_loss: 1.4010 - val\_acc: 0.6451

Epoch 9/30

156/156 [==============================] - 111s 712ms/step - loss: 0.3183 - acc: 0.9042 - val\_loss: 1.5454 - val\_acc: 0.6799

Epoch 10/30

156/156 [==============================] - 111s 713ms/step - loss: 0.2920 - acc: 0.9160 - val\_loss: 1.3986 - val\_acc: 0.6730

Epoch 11/30

156/156 [==============================] - 111s 712ms/step - loss: 0.2635 - acc: 0.9242 - val\_loss: 1.1702 - val\_acc: 0.6989

Epoch 12/30

156/156 [==============================] - 111s 711ms/step - loss: 0.2362 - acc: 0.9304 - val\_loss: 1.3928 - val\_acc: 0.7086

Epoch 13/30

156/156 [==============================] - 115s 737ms/step - loss: 0.2757 - acc: 0.9206 - val\_loss: 1.4539 - val\_acc: 0.6948

Epoch 14/30

156/156 [==============================] - 115s 735ms/step - loss: 0.2527 - acc: 0.9281 - val\_loss: 1.3308 - val\_acc: 0.7080

Epoch 15/30

156/156 [==============================] - 114s 734ms/step - loss: 0.2372 - acc: 0.9332 - val\_loss: 1.0946 - val\_acc: 0.7352

Epoch 16/30

156/156 [==============================] - 111s 714ms/step - loss: 0.2330 - acc: 0.9337 - val\_loss: 1.2783 - val\_acc: 0.7256

Epoch 17/30

156/156 [==============================] - 115s 735ms/step - loss: 0.2186 - acc: 0.9380 - val\_loss: 1.4281 - val\_acc: 0.6923

Epoch 18/30

156/156 [==============================] - 111s 710ms/step - loss: 0.2405 - acc: 0.9326 - val\_loss: 1.4879 - val\_acc: 0.6895

Epoch 19/30

156/156 [==============================] - 111s 712ms/step - loss: 0.1846 - acc: 0.9482 - val\_loss: 1.2042 - val\_acc: 0.7503

Epoch 20/30

156/156 [==============================] - 110s 707ms/step - loss: 0.2044 - acc: 0.9448 - val\_loss: 1.3733 - val\_acc: 0.7115

Epoch 21/30

156/156 [==============================] - 114s 732ms/step - loss: 0.1858 - acc: 0.9479 - val\_loss: 1.5745 - val\_acc: 0.6623

Epoch 22/30

156/156 [==============================] - 110s 706ms/step - loss: 0.1853 - acc: 0.9497 - val\_loss: 1.7441 - val\_acc: 0.6746

Epoch 23/30

156/156 [==============================] - 110s 706ms/step - loss: 0.1685 - acc: 0.9546 - val\_loss: 1.3410 - val\_acc: 0.7111

Epoch 00023: ReduceLROnPlateau reducing learning rate to 0.00020000000949949026.

Epoch 24/30

156/156 [==============================] - 111s 710ms/step - loss: 0.0983 - acc: 0.9729 - val\_loss: 1.1378 - val\_acc: 0.7615

Epoch 25/30

156/156 [==============================] - 111s 711ms/step - loss: 0.0696 - acc: 0.9812 - val\_loss: 1.1606 - val\_acc: 0.7719

Epoch 26/30

156/156 [==============================] - 111s 711ms/step - loss: 0.0632 - acc: 0.9829 - val\_loss: 1.2418 - val\_acc: 0.7595

Epoch 27/30

156/156 [==============================] - 111s 710ms/step - loss: 0.0613 - acc: 0.9843 - val\_loss: 1.3431 - val\_acc: 0.7396

Epoch 28/30

156/156 [==============================] - 111s 711ms/step - loss: 0.0545 - acc: 0.9849 - val\_loss: 1.3615 - val\_acc: 0.7454

Epoch 29/30

156/156 [==============================] - 111s 710ms/step - loss: 0.0540 - acc: 0.9854 - val\_loss: 1.4843 - val\_acc: 0.7261

Epoch 00029: ReduceLROnPlateau reducing learning rate to 4.0000001899898055e-05.

Epoch 30/30

156/156 [==============================] - 111s 712ms/step - loss: 0.0443 - acc: 0.9883 - val\_loss: 1.3184 - val\_acc: 0.7503

run: =

Found 240 images belonging to 24 classes.

loss: 637.97%

acc: 58.75%

Took 1 seconds to evaluate this set.

Took 0 seconds to get predictions on this set.

[ 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 2 2 2 2

2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4

4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7

7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9

9 9 9 9 10 10 10 10 10 10 10 10 10 10 11 11 11 11 11 11 11 11 11 11

12 12 12 12 12 12 12 12 12 12 13 13 13 13 13 13 13 13 13 13 14 14 14 14

14 14 14 14 14 14 15 15 15 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16

16 16 17 17 17 17 17 17 17 17 17 17 18 18 18 18 18 18 18 18 18 18 19 19

19 19 19 19 19 19 19 19 20 20 20 20 20 20 20 20 20 20 21 21 21 21 21 21

21 21 21 21 22 22 22 22 22 22 22 22 22 22 23 23 23 23 23 23 23 23 23 23] = [ 9 14 0 0 0 0 0 0 0 0 1 1 5 1 1 5 1 1 1 1 2 2 2 2

2 2 2 2 2 2 20 20 20 20 20 20 20 20 20 20 13 4 13 13 13 13 4 4

2 13 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 8 7 7

7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 23 23 9 9 9 9 9 9

9 9 20 20 10 10 10 10 10 10 10 10 10 10 11 11 11 11 11 11 11 11 11 11

11 11 11 11 11 11 11 11 11 11 14 14 14 14 14 13 2 14 2 2 18 11 14 14

14 23 11 23 12 9 22 22 22 22 22 22 22 22 22 22 22 22 9 9 9 3 9 9

9 9 17 17 17 17 17 17 17 17 17 17 9 9 9 9 9 9 18 18 18 18 19 19

19 19 3 19 19 19 19 19 9 9 20 9 9 9 9 20 20 20 21 20 20 20 20 21

21 21 21 21 9 9 9 9 9 9 9 9 9 9 23 23 23 23 23 23 23 23 23 23]

C:\Users\ASUS-PC\AppData\Local\Programs\Python\Python36\lib\site-packages\sklearn\metrics\classification.py:1143: UndefinedMetricWarning: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples.

'precision', 'predicted', average, warn\_for)

precision recall f1-score support

a 1.00 0.80 0.89 10

b 1.00 0.80 0.89 10

c 0.71 1.00 0.83 10

d 0.00 0.00 0.00 10

e 1.00 0.30 0.46 10

f 0.83 1.00 0.91 10

g 1.00 0.90 0.95 10

h 1.00 1.00 1.00 10

i 0.89 0.80 0.84 10

k 0.21 0.80 0.33 10

l 1.00 1.00 1.00 10

m 0.45 1.00 0.62 10

n 0.00 0.00 0.00 10

o 0.14 0.10 0.12 10

p 0.30 0.30 0.30 10

q 0.00 0.00 0.00 10

r 0.00 0.00 0.00 10

s 1.00 1.00 1.00 10

t 0.80 0.40 0.53 10

u 1.00 0.90 0.95 10

v 0.20 0.40 0.27 10

w 1.00 0.60 0.75 10

x 0.00 0.00 0.00 10

y 0.71 1.00 0.83 10

micro avg 0.59 0.59 0.59 240

macro avg 0.59 0.59 0.56 240

weighted avg 0.59 0.59 0.56 240

PS C:\r\transfer learning>