1. Figure Q1 depicts a block that consists of three convolutional layers. The input volume has a size of $256 \times 32 \times 32$ and the second layer has 32 convolution filters each with a size of $64 \times 3 \times 3$, stride = 1 and padding = 1.

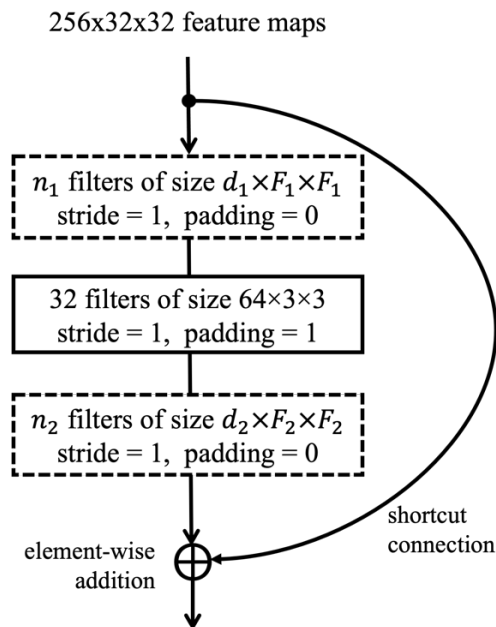   Provide the values of n_1, d_1, F_1, n_2, d_2, and F_2 to form a valid block. Explain your design.

Figure Q1

2. Study and try the tutorial t7q1.ipynb on transfer learning. In particular,
   a. Understand how to data augmentation is performed
   b. Review the transfer learning steps
   c. Try the code to perform transfer learning on the classification of bees vs. ants