Describe what problems you encountered and how did you solve them when implementing the basic and advanced functions. (2%)
 When I was writing model.backward(), I kept having error like

```
69 """

70 A_prev, W, b = self.cache

---> 71 m = A_prev.shape[1]

72 # GRADED FUNCTION: linear_backward

73 ### START CODE HERE ### (≈ 3 lines of code)

75 self.dW = 1/m * np.matmul(dZ, A_prev.transpose())

AttributeError: 'str' object has no attribute 'shape'
```

After spending lots of time debugging, I found that I should write like this

```
#self.cache = {"A": A.copy(), "W": self.parameters["W"].copy(), "b": self.parameters["b"].copy()}
self.cache = (A.copy(), self.parameters["W"].copy(), self.parameters['b'].copy())
```

If I write something like the line that I comment, the string A,W,b will be store into cache.

 Briefly describe the structure of your binary and multi-class classifiers. (2%)

**Basic** 

```
layers_dims = [30,64,1]
activation_fn = ["relu" ,"sigmoid"]
learning_rate = 0.4
num_iterations = 1000
print_cost = True
```

## Advanced

```
layers_dims = [28*28,512,64,10]
activation_fn = ["relu","relu","softmax"]
learning_rate = 0.01
num_iterations = 103
batch_size = 100
print_cost = True
classes = 10
```

 Describe effort you put to improve your model (e.g., hyperparameter finetuning). (1%)
 Test the layer of the model and activation function to determine which is better.