**Practical 2**

Initializers:

1. Baseline model for classification on CIFAR10 dataset

loss: 1.4662

acc: 0.4764

val\_loss: 1.4808

val\_acc: 0.4719

1. Model with Initializer as random uniform and zeros

loss: 1.4644

acc: 0.4714

val\_loss: 1.4793

val\_acc: 0.4653

1. Model with weights as ones

loss: 14.5063

acc: 0.1000

val\_loss: 14.5063

val\_acc: 0.1000

1. Model initialized with constant values
2. RandomNormal

loss: 1.4667

acc: 0.4748

val\_loss: 1.4949

val\_acc: 0.4652

1. RandomUniform

loss: 1.4584

acc: 0.4782

val\_loss: 1.4513

val\_acc: 0.4890

1. TruncatedNormal

loss: 1.4590

acc: 0.4782

val\_loss: 1.4486

val\_acc: 0.4865

1. VarianceScaling

loss: 1.4508

acc: 0.4818

val\_loss: 1.4495

val\_acc: 0.4860

1. Orthogonal

loss: 1.5190

acc: 0.4586

val\_loss: 1.5585

val\_acc: 0.4411

1. Identity

loss: 2.0564

acc: 0.1897

val\_loss: 2.0474

val\_acc: 0.1890

1. lecun\_uniform

loss: 1.4452

acc: 0.4819

val\_loss: 1.4938

val\_acc: 0.4692

1. Glorot\_normal

loss: 1.4526

acc: 0.4815

val\_loss: 1.4702

val\_acc: 0.4772

1. Glorot\_uniform

loss: 1.4541

acc: 0.4787

val\_loss: 1.4801

val\_acc: 0.4710

1. He\_normal

loss: 1.4651

acc: 0.4730

val\_loss: 1.4525

val\_acc: 0.4782

1. Lecun\_normal

loss: 1.4723

acc: 0.4714

val\_loss: 1.4658

val\_acc: 0.4787

1. He\_uniform

loss: 1.4595

acc: 0.4769

val\_loss: 1.4919

val\_acc: 0.4671