

**Nirbhay Sharma (B19CSE114)****Assignment -1**

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**Installing conda env**

```
conda env create -f assn_env.yaml
```

**Que-1****part1**

```
python que1.py configs/que1_train.yaml
```

**part2**

```
python que2.py configs/que2_resnet18.yaml
```

```
python que2.py configs/que2_shufflenet.yaml
```

**part3**

```
python que3.py configs/que3_detnet.yaml
```

**Que-2****For simple binary classification**

```
python que4_simple.py configs/que4_deepfake.yaml
```

**For siamese approach**

```
python que4_siamese.py configs/que4_deepfake.yaml
```

**Que-3**

**For MelSpectrograms + Siamese approach**

```
python que5_audio_df_siamese.py configs/que5_audio_df.yaml
```

**For Assist**

```
CUDA_VISIBLE_DEVICES=<gpu_id> python main.py --config config/AASIST.conf
```

**Note:** For each of the approaches the paths and hyperparameters need to be changed at the corresponding YAML files