

Question 2.

```
mean_data =
```

```
    71.8333
```

```
std_data =
```

```
    13.7467
```

```
within_1_std =
```

```
    0.6667
```

```
within_2_std =
```

```
    0.9583
```

```
within_3_std =
```

```
    1
```

```
std_probabilities =
```

```
    0.6667    0.9583    1.0000
```

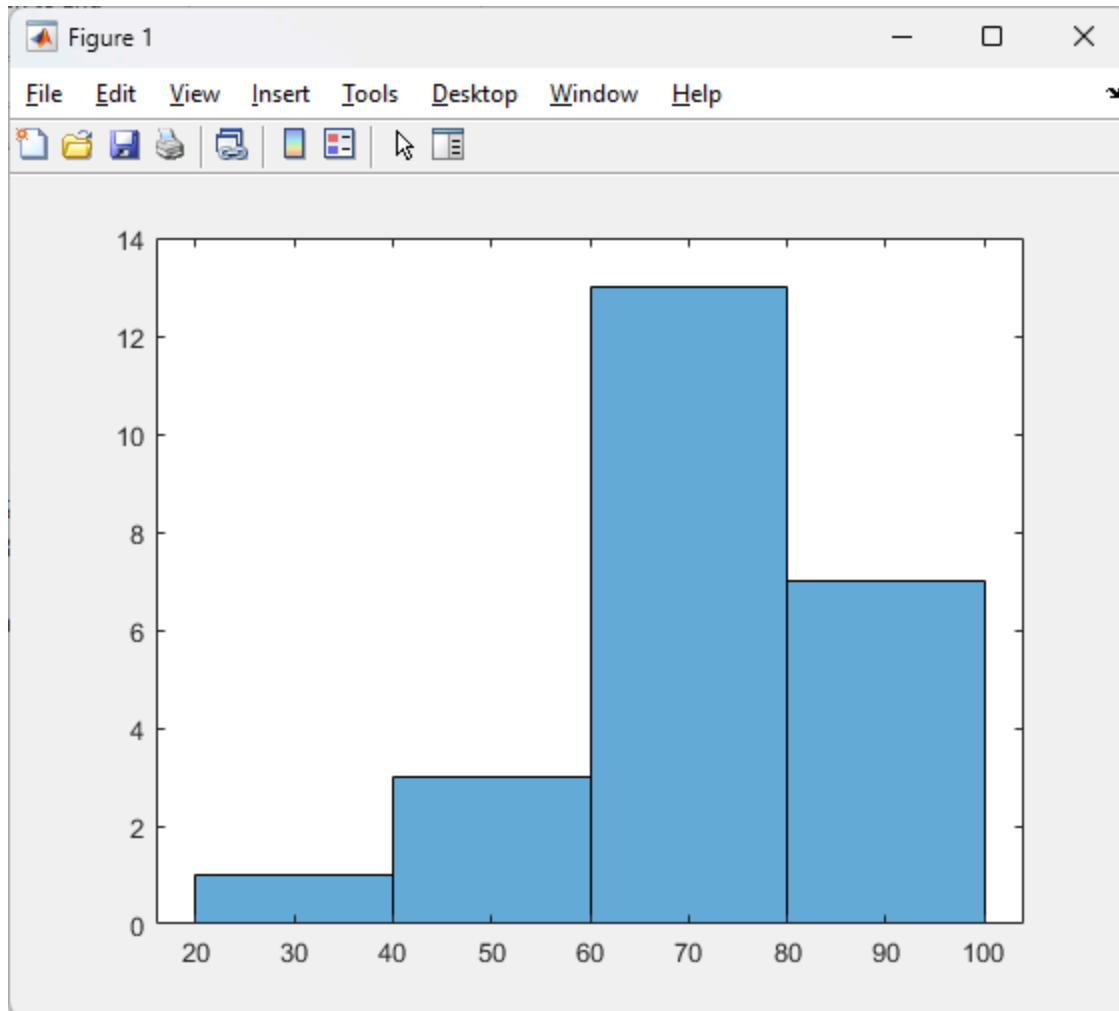
```
norm_probabilities =
```

```
    0.6827    0.9545    0.9973
```

```
abs_error =
```

```
    0.0160    0.0038    0.0027
```

```
>>
```



Question 3.

1)

mean_data =

0.0025

std_data =

0.1962

within_1_std =

0.7209

```
within_2_std =
```

```
    0.9420
```

```
within_3_std =
```

```
    0.9927
```

```
std_probabilities =
```

```
    0.7209    0.9420    0.9927
```

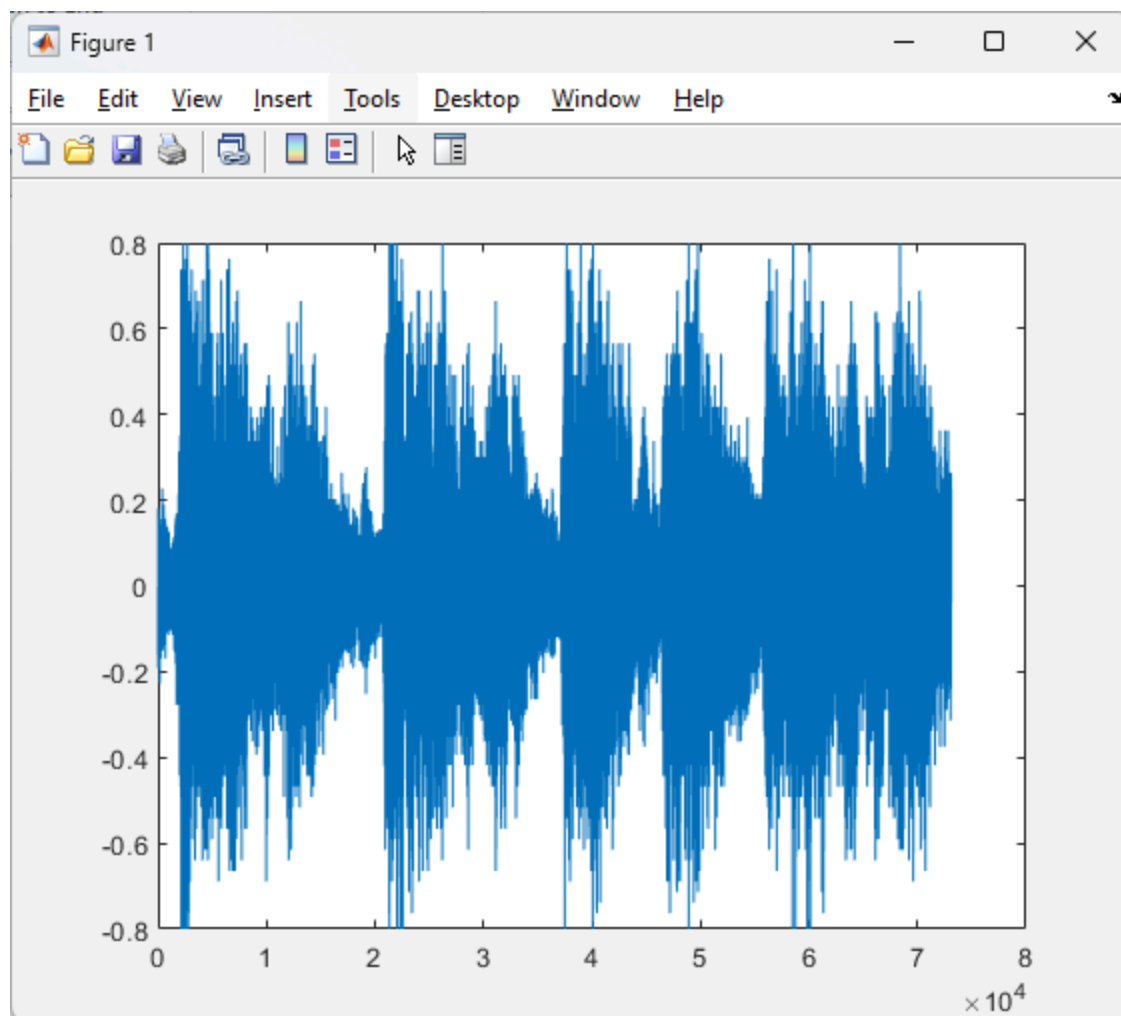
```
norm_probabilities =
```

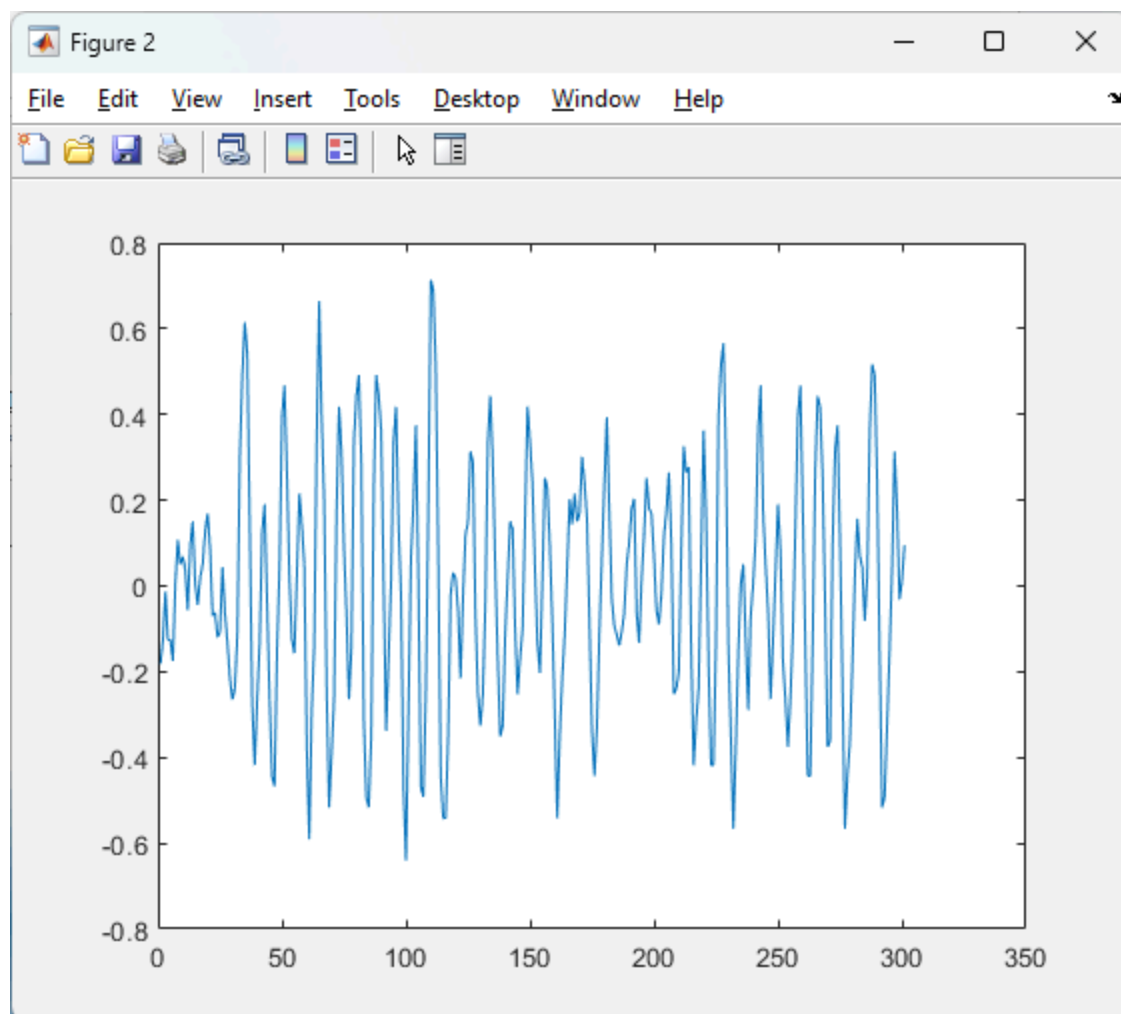
```
    0.6827    0.9545    0.9973
```

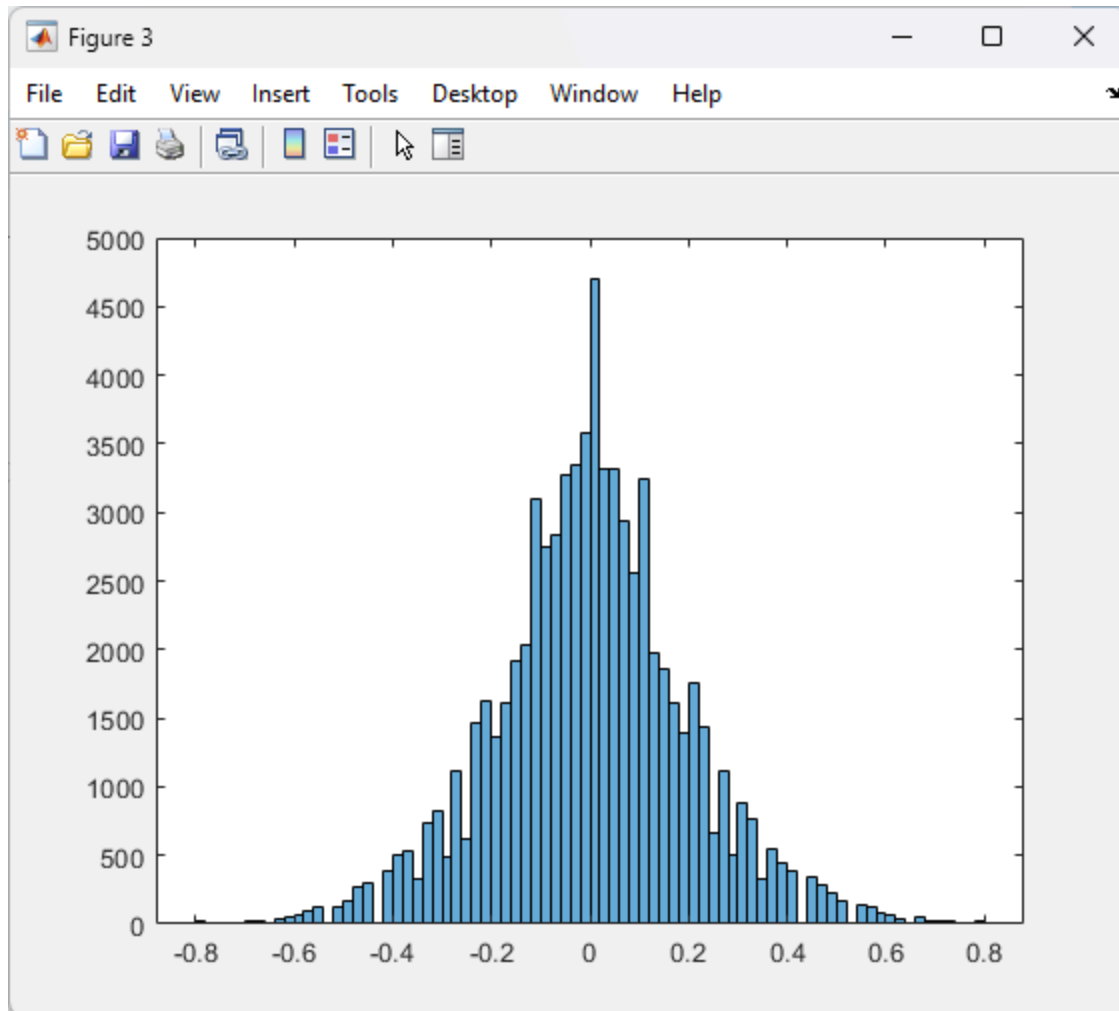
```
abs_error =
```

```
    0.0382    0.0125    0.0046
```

```
>>
```







2)

I think that the data from the audio sample can be modelled by a normal distribution better than the grade data as it is more symmetric in this case.

In general grades are more likely to follow a normal distribution than audio files so usually I would assume a normal distribution would be used for that instead of the audio file.