

Shanmugan Problem 8.2 - Uniform distribution

```
%% Solution for Shanmugan problem 8.2
```

```
%Generation of uniform distributed data
```

```
samplesize=100;
```

```
data1=rand(samplesize,1);
```

```
hist(data1)
```

```
%Generation of normal distributed data
```

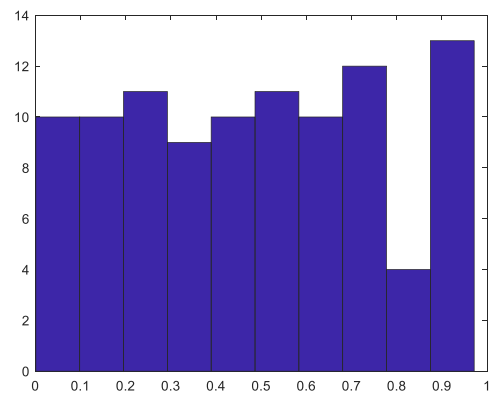
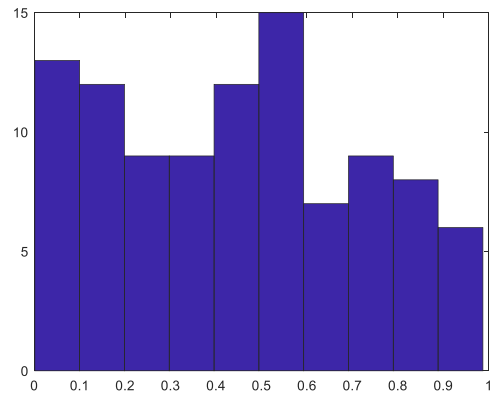
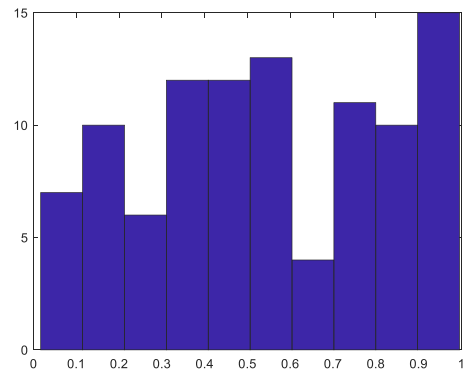
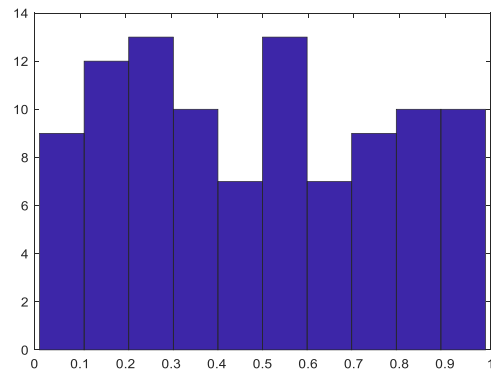
```
%meanX=2;
```

```
%varX=9;
```

```
%samplesize=100;
```

```
%data2=sqrt(varX).*randn(samplesize,1)+meanX;
```

```
%hist(data2)
```



Shanmugan Problem 8.2 - Normal distribution

```
%% Solution for Shanmugan problem 8.2
```

```
%Generation of uninform distributed data
```

```
%samplesize=100;
```

```
%data1=rand(samplesize,1);
```

```
%hist(data1)
```

```
%Generation of normal distributed data
```

```
meanX=2;
```

```
varX=9;
```

```
samplesize=100;
```

```
data2=sqrt(varX).*randn(samplesize,1)+meanX;
```

```
hist(data2)
```

