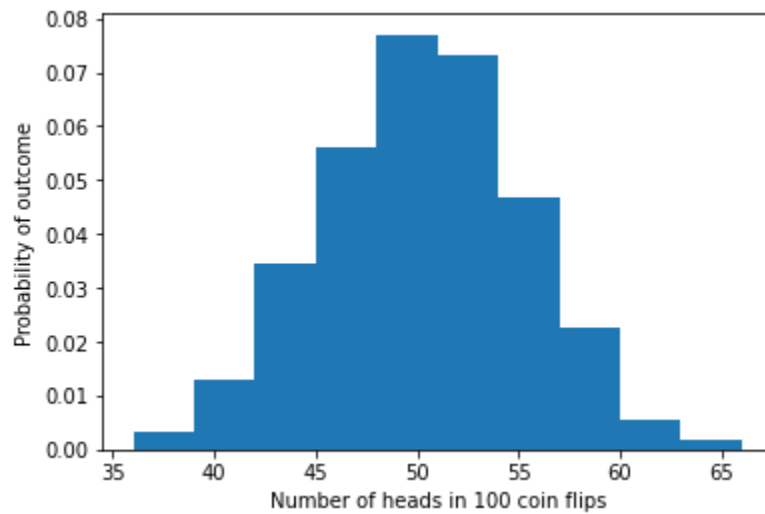


**NAME : AMMAAR AHMAD**

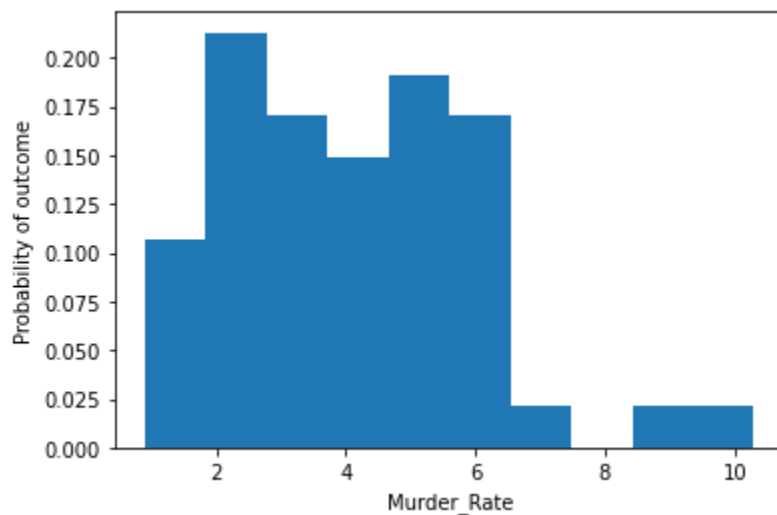
**ROLL NO: 1801CS08**

**CS575 - LAB2**

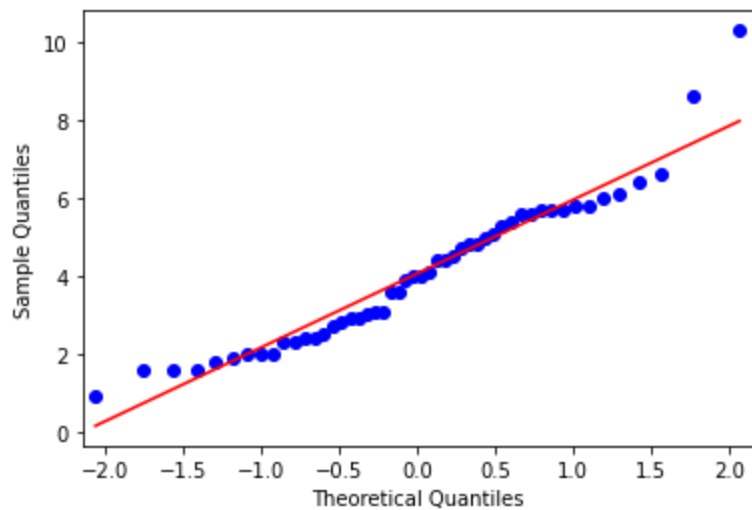
**1.**



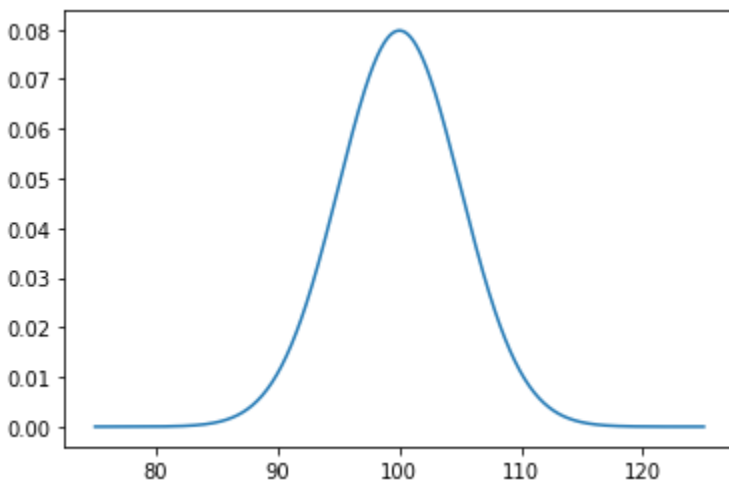
**2.**



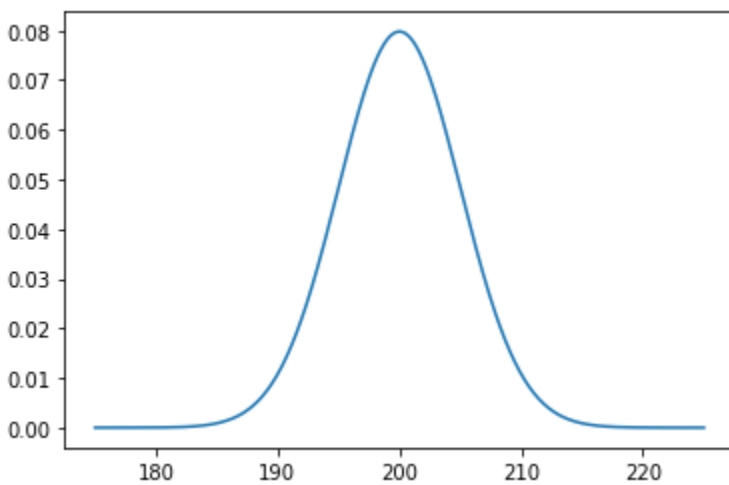
**This does not resemble normal distribution and is rightly skewed data distribution. Null hypothesis is rejected as  $p \text{ value} = 0.02 < \text{significance level}$**



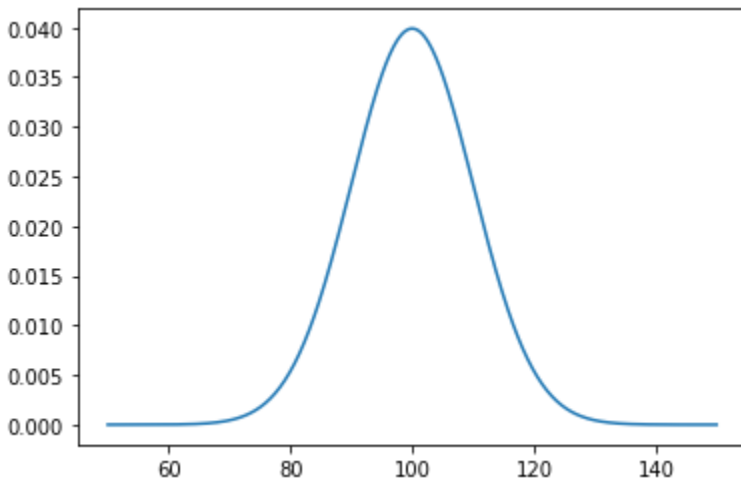
### 3. Mean = 100 Standard Deviation = 5 Normal Distribution(Down)



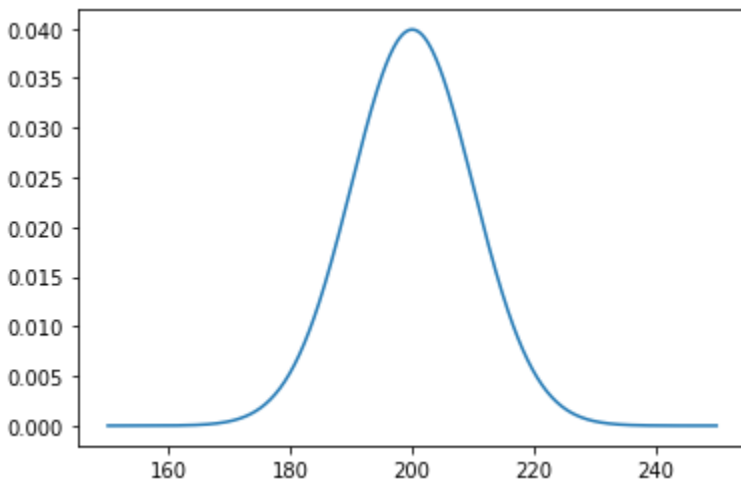
### Mean = 200 Standard Deviation = 5 Normal Distribution (Down)



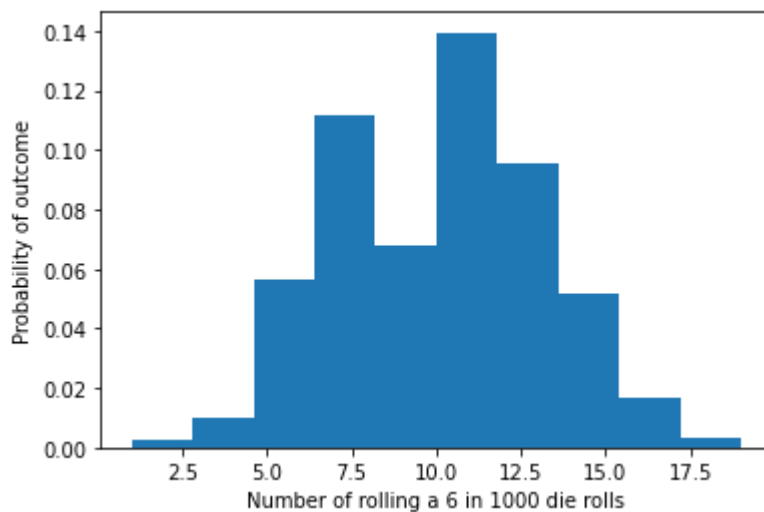
**Mean = 100 Standard Deviation = 10 Normal Distribution (Down)**



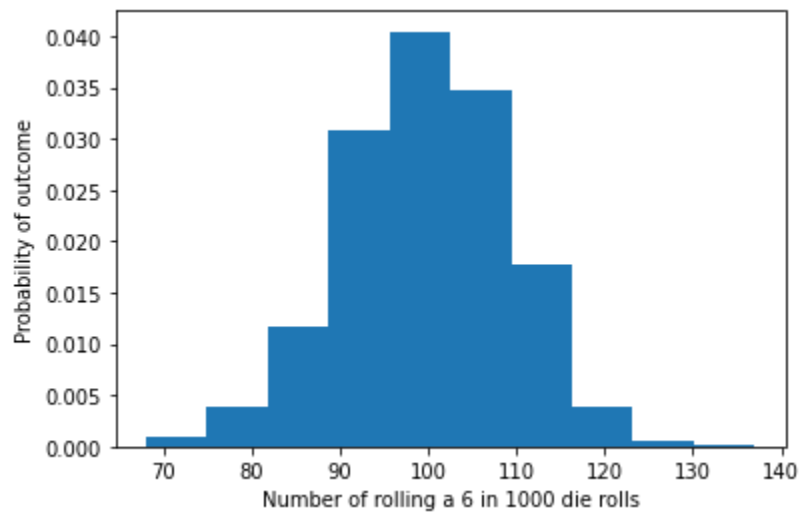
**Mean = 200 Standard Deviation = 10 Normal Distribution (Down)**



**4. Probability of K success in 100 trials in 1000 experiments**



**5. Probability of K success in 1000 trials in 1000 experiments**



**6. Shaded region above 25 Percentile in Normal Distribution  
Mean = 50 Standard Deviation = 10**

