

```

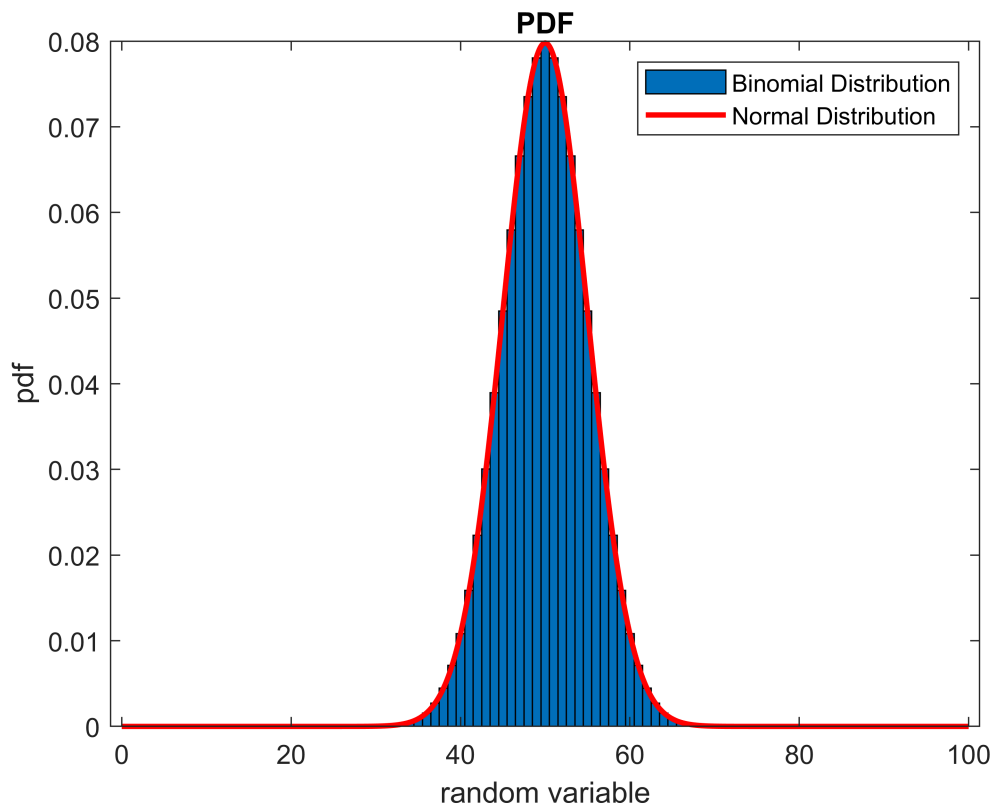
n = 100;
x = 0:100;
p = 0.5;
y = binopdf(x, n, p);
mean = n*p;
sigma = sqrt(n*p*(1-p));
x2 = 0:0.1:n;
y2 = normpdf(x2, mean, sigma);

```

```

bar(x, y, 1)
hold on
plot(x2, y2, "r-", "LineWidth", 2)
xlabel("random variable")
ylabel("pdf")
title("PDF")
legend("Binomial Distribution", "Normal Distribution")
hold off

```



```

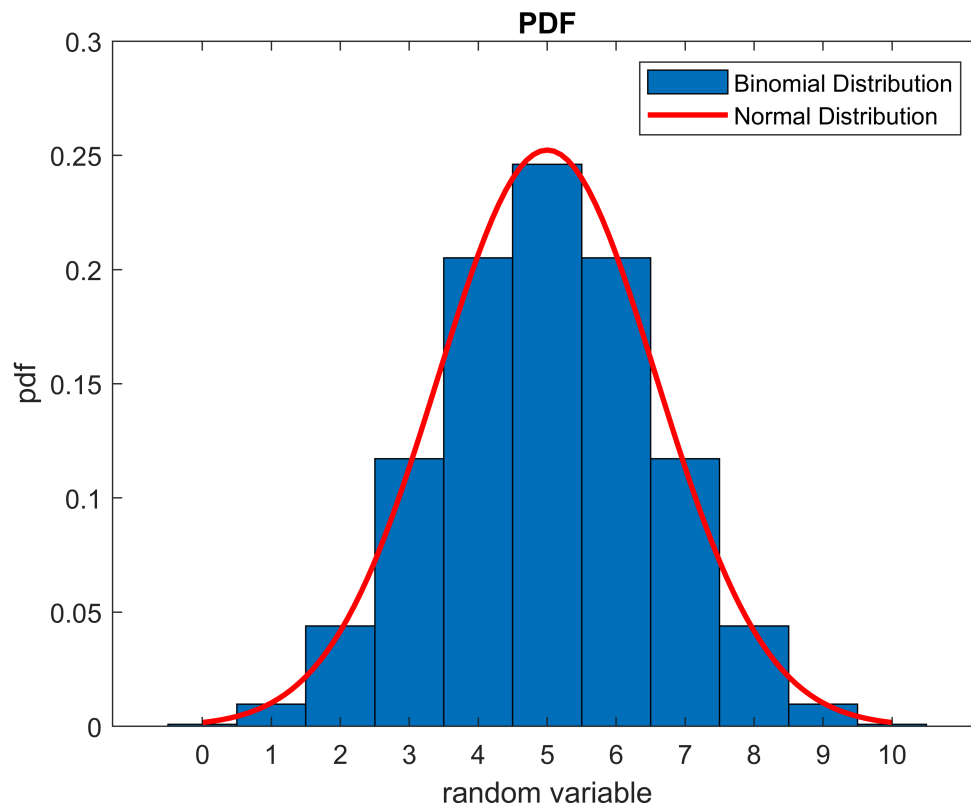
n = 10;
x = 0:10;
p = 0.5;
y = binopdf(x, n, p);
mean = n*p;
sigma = sqrt(n*p*(1-p));
x2 = 0:0.1:n;
y2 = normpdf(x2, mean, sigma);

```

```

bar(x, y, 1)
hold on
plot(x2, y2, "r-", "LineWidth", 2)
xlabel("random variable")
ylabel("pdf")
title("PDF")
legend("Binomial Distribution", "Normal Distribution")
hold off

```



```

n = 100;
x = 0:100;
p = 0.9;
y = binopdf(x, n, p);
mean = n*p;
sigma = sqrt(n*p*(1-p));
x2 = 0:0.1:n;
y2 = normpdf(x2, mean, sigma);

```

```

bar(x, y, 1)
hold on
plot(x2, y2, "r-", "LineWidth", 2)
xlabel("random variable")
ylabel("pdf")
title("PDF")
legend("Binomial Distribution", "Normal Distribution")

```

hold off

