**ASSIGNMENT-01 PROJECT#19**

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ANSWERS:

1. a) 0.3 b) 0.5 c) 0.5

2. He should switch the door to win the car

3. P=4/7

4. P(X<0.5)=0.3 P(0.25<x<0.75)=0.4 P(x=0.2|X<0.6)=0.2

5. c=1/4

P(1<X<2)=0

P(2≤X<3)=0

P(0<X≤1)=1/4

P(1≤X≤2)=1/12

P(X≥3)=1

6. E[X]=1/2 Var[X]=1/12

E[Y]=⅓ E[X+Y]=5/6