

## Assignment 1

*Yash R Ramteke*  
*bt21btech11006*

30 March 2022

**Q9 (a)**

**Solution :**

<i>No.ofpatients</i>	<i>No.ofdays(<math>f_i</math>)</i>	<i>Classmark</i>	$d_i = x_i - a$	$f_i d_i$
10-20	5	15	-30	-150
20-30	2	25	-20	-40
30-40	7	35	-10	-70
40-50	9	<b>a=45</b>	0	0
50-60	2	55	10	20
60-70	5	65	20	100

$$\sum f_i = 30$$

$$\sum f_i d_i = -140$$

$$Mean(X) = a + \frac{f_i d_i}{f_i}$$

$$Mean(X) = 45 + \frac{(-140)}{30} = 45 - 4.67 = 40.33$$