

ADS-11

Q.11.1 3, 10, 2, 4

$$\text{hash 1} = K \bmod 5$$

$$\text{hash 2} = 7K \bmod 8$$

	hash 1	hash 2
3	3	5
10	0	6
2	2	6
4	4	4

10		2	3	4					
0	1	2	3	4	5	6	7	8	9

Q.21(b) Done in "Hash.cpp" file. ~~attached~~

11-2

(a) Set of activity =  $\{a_1, a_2, a_3\}$

Start time =  $S_i$

Finish time =  $F_i$

$a_i =$      1     2     3

$S_i =$      1     2     7

$F_i =$      8     9     10

Now implementing the activity selection using the greedy approach it will select (1, 3) due to the shortest time next it will select (7, 10) but due to overlapping it cannot be used. Next it will select (2, 9) and again due to overlapping it cannot be used.