

M	T	W	T	F	S	S	M	T	W	T	F	S	S
00	01	02	03	04	05	06	07	08	09	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26	27
28	29	30	31										

Jan 2019

2019
January

Hijri
1440

Name = Haider Zaman

ID = 14402

Assignment = Design and analysis of algo.

09
10
11
12
01
02
03
04
05
06

Evening

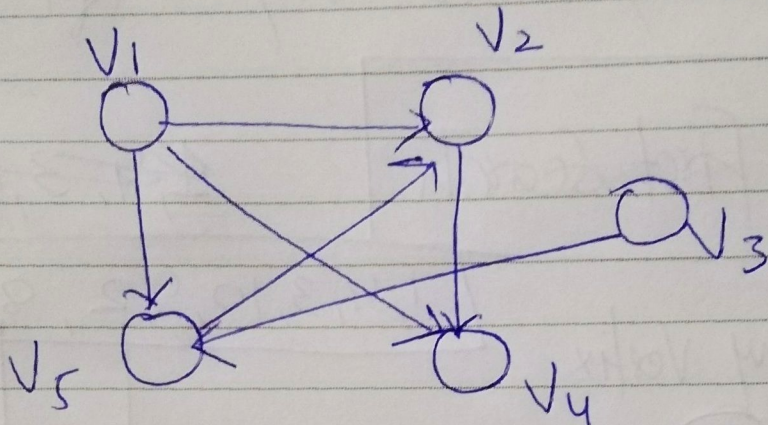
7 J-Awwal
Monday 14

8 J-Awwal
Tuesday 15

09
10
11
12
01
02
03
04
05
06

Evening

Q2



	V_1	V_2	V_3	V_4	V_5
V_1	0	1	0	1	1
V_2	0	0	0	1	0
V_3	0	0	0	0	1
V_4	0	0	0	0	0
V_5	0	1	0	0	0

11 4 J-Awwal
Friday

12 5 J-Awwal 13 6 J-Awwal
Saturday Sunday

After calculating path between

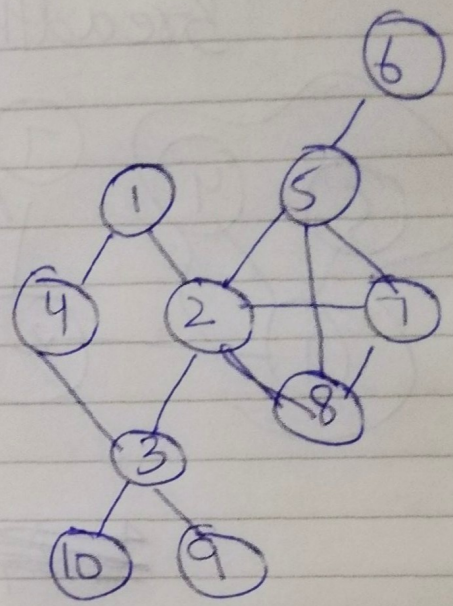
	V_1	V_2	V_3	V_4	V_5
V_1	0	1	0	1	0
V_2	0	0	0	0	0
V_3	0	1	0	0	0
V_4	0	0	0	0	0
V_5	0	0	0	1	0

Evening

Q1

Breadth First search

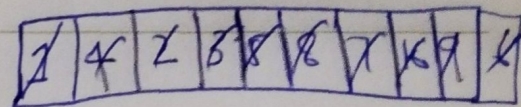
1, 4, 2, 3, 5, 8, 7, 10, 9, 6



Here first we select any node.

Let suppose we select 1
Now we explore 1

adjacent are 4 and 2



7 29 R-Sani
Monday

8 1 J-Awwal
Tuesday

Now we explore 3

we explore 2.

adjacent are 3 and 5 and 6 and 7 and 8

3 is also explore. so we will go

5, 8, 7

Now we explore 3.

adjacent are 10, 9, 4,

4 is already explore so we write 10, 9

Evening

Now we explore 5.
adjacent are 6, 9, 7, 2
these are already visited only 6 left.

Depth first search.

~~1, 4, 3, 10, 9, 2~~

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

Start from any vertex

9 select (1)

the adjacent are (4) and (2)

First we explore 4

Now adjacent are (3)

so we will explore (3)

now adjacent are

(10) and (9)

explore (10)

Now go back and explore 3.

2 is adjacent. Now 8 is adjacent.

Now start exploring 8.

7 is adjacent start exploring 7.

We will go to 7. adjacent is 5. explore

09

10

11

12

01

02

03

04

05

06

Evening

2 J-Awwal
Wednesday 9

3 J-Awwal
Thursday 10

09

10

11

12

01

02

03

04

05

06

Evening