

## LAB-12

### Q1 Output:

#### a) FIFO

```
PS C:\6th-sems\OS labs> cd "c:\6th-sems\OS labs\" ; if  
{ gcc lab_12_1.c -o lab_12_1 } ; if ($?) { .\lab_12_1
```

Enter the length of the reference string: 13

Enter the reference string: 7 0 1 2 0 3 0 4 2 3 0 3 2

Enter the number of frames: 3

The Page Replacement Process is:

7	-	-	PF No. 1
7	0	-	PF No. 2
7	0	1	PF No. 3
2	0	1	PF No. 4
2	0	1	
2	3	1	PF No. 5
2	3	0	PF No. 6
4	3	0	PF No. 7
4	2	0	PF No. 8
4	2	3	PF No. 9
0	2	3	PF No. 10
0	2	3	
0	2	3	

Total Page Faults using FIFO: 10

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### Q1 Output:

#### b)LRU

```
PS C:\6th-sems\OS labs> cd "c:\6th-sems\OS labs\" ; if
{ gcc lab_12_2.c -o lab_12_2 } ; if ($?) { .\lab_12_2 }
Enter the length of the reference string: 13
Enter the reference string: 7 0 1 2 0 3 0 4 2 3 0 3 2
Enter the number of frames: 3
```

The Page Replacement Process is:

7	-	-	PF No. -- 1
7	0	-	PF No. -- 2
7	0	1	PF No. -- 3
2	0	1	PF No. -- 4
2	0	1	
2	0	3	PF No. -- 5
2	0	3	
4	0	3	PF No. -- 6
4	0	2	PF No. -- 7
4	3	2	PF No. -- 8
0	3	2	PF No. -- 9
0	3	2	
0	3	2	

Total number of page faults using LRU: 9

## LAB-12

### Q1 Output:

#### c) Optimal Page Replacement

```
PS C:\6th-sems\OS labs> cd "c:\6th-sems\OS labs\" ; if (
{ gcc lab_12_3.c -o lab_12_3 } ; if ($?) { .\lab_12_3 }
Enter number of frames: 3
Enter number of pages: 13
Enter page reference string: 7 0 1 2 0 3 0 4 2 3 0 3 2

7      -      -
7      0      -
7      0      1
2      0      1
2      0      1
2      0      3
2      0      3
2      4      3
2      4      3
2      4      3
2      0      3
2      0      3
2      0      3

Total Page Faults = 7
```

## LAB-12

### Q1 Output:

#### d) MRU

```
PS C:\6th-sems\OS labs> cd "c:\6th-sems\OS labs\" ; if ($?)  
{ gcc lab_12_4.c -o lab_12_4 } ; if ($?) { .\lab_12_4 }  
Array in most recently used fashion: 5 6 1 9 3  
PS C:\6th-sems\OS labs> █
```