



**DUE: Thursday 05 January 2023**

**Task 1:** Evaluate Least Recently Used (LRU) page replacement algorithm using 3 frames by running it on a particular string of memory references (reference string) and computing the number of page faults.

1, 2, 3, 4, 1, 2, 5, 1, 2, 3, 4, 5

**Task 2:** Evaluate optimal page replacement algorithm using 4 frames by running it on a particular string of memory references (reference string) and computing the number of page faults.

0,1,3,6,2,4,5,2,5,0,3,1,2,5,4,1,0

**Task 3:** Evaluate NFU page replacement algorithm using 3 frames by running it on a particular string of memory references (reference string) and computing the number of page faults.

0,1,3,6,2,4,5,2,5,0,3,1,2,5,4,1,0

**TASK 4:** Consider 2-Mbyte of memory is allocated using Buddy System. Show the Binary tree form for the following:

Request 60k(A)  
Request 240k(B)  
Request 150k(C)  
Request 256k(D)  
Release B  
Release A  
Request 75k(E)  
Release C  
Release E  
Release D.

.....End.....