Assignment # 3 – FALL 2020

Course Title:	Operating Systems			Course Code:	CSC322	Credit Hours:	3(2,1)
Course Instructor:	Dr. Hasan Jamal			Programme Name:		BCS	
Semester:		Batch:		Section:		Date:	22/12/2020
Deadline:	24/12/2020 before 2:30 PM			**Maximum Marks:**		**10**	
Name				**Student ID**			

Important Instructions / Guidelines:
- Write your answers on this sheet and submit the assignment on Google Classroom
- No late submission allowed
- Any solution found to be copied would strictly result in zero marks
- Maximum three persons per group is allowed for submission.

Question: Consider a memory system that generates 32-bits addresses and the frame size is 4096-byte. At time T_0 the status of the page table is given below.

Page #	Page Table Entry
768	26
223	4
113	21
2043	50
2281	47

a) What is the maximum number of page table entries in the memory system?

b) What is the maximum number of entries within a single page/frame?

c) Using the given page table, determine the physical addresses for the following logical addresses. Write down the physical addresses in binary and decimal format.

(i)   00000000000001110001010110101101

(ii) 00000000100011101001000010110100

(iii) 00000000000110000000000101010001

(iv) 00000000011010100101100000010010