**Lab 10 Assembly Fall 2017 Sec C**

**Question # 1**

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| **Following 2 lines generate an interrupt of get system date**  mov AH, 2ah  int 21h  and when you return from this interrupt you have:  AL = Day of the week [0=SUN, 6=SAT)  CX - Year (1980-2099)  DH = Month (l-12)  DL = Day (1-31) |
| **Following 2 lines generate an interrupt of get system time**  mov AH, 2ch  int 21h  and when you return from this interrupt you have:  Hours is in CH (1-21)  Minutes is in CL (0-59)  Seconds is in DH (0-59) |

Your task is to:

Write an ISR and hook it with INT 21h.

Then wait for user input (BIOS keyboard service see example no 8.3)

* If user presses **d** then clear screen and display date in following format on screen. Using int 21 interrupt
  + - DD/ MM/YYYY, e.g. 07/11/2017
* If user presses **t** then clear screen and display time in following format on screen. Using int 21 interrupt .
  + - Hour/ Min/Sec, e.g. 08/10/05
* If user presses **q** terminate your code. Do not terminate your program until user presses q.
* If user press other than d, t and q do nothing.

**Bonus Task:**

Use Bios Services for printing. You can get bonus marks only if you have done question no 1.