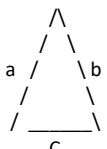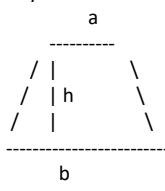**Computer Science 120**
Project No.7 (switch statement and for-loop)

Write programs with the following I/O. Use switch statement to make decision

1. --------------------------------MENU---------------------------------
   a. Compute area of a rectangle
   b. Compute area of a triangle (base and height are given)
   c. Compute area of a triangle (three sides are given)
   d. Compute area of a trapezoid
   Sample I/O: Run your program 4 times to test all menu options

Enter your choice: c	Enter your choice: d	Enter your choice: b	Enter your choice: a
| ```
       /\
      /  \
   a /    \ b
    /      \
   /_____\
       C
``` | ```
      a
   ----------
   /  |      \
  /   | h     \
 /    |        \
 ------------------
      b
``` | ```
     /|\
    / | \
   /  |h \
  /   |   \
  ----------
      C
``` | ```
 --------------------------------
 |                              |
 |                              | w
 |                              |
 --------------------------------
      Length
``` |
Enter the values of a,b, and c:	Enter the values of a,b and h:	Enter the values of c and h:	Enter the values of width and
5.1 7.1 8.6	5.2 8.1 12	5.1 7.1	length: 4.5 7.5
Area = xx.xx	Area = xx.xx	Area = xx.xx	Area = 33.75
Area=$\sqrt{p(p-a)(p-b)(p-c)}$ p=(a+b+c)/2	Area=h(a+b)/2	Area = hc/2	Area=width*length

2. ---------------------- ACE CLUB FEES --------------------------
   Adults
          Male…………………………………………………200.20
          Female……………………………………………..250.50
   Teenagers
          Male…………………………………………………210.20
          Female……………………………………………..150.50
   Children
          All…………………………………………………..100.25
             Enter your age: 35
             Enter your gender(m/f)? F
               Your membership is $250.50

   Test your program for the other two age categories. Paste all outputs at the end of your program codes. USE SWITCH STATEMENTS when it is appropriate.

3. Read today data in form of mm/dd/yyyy and display the month in word, st,th,ed,or nd after the day and year at the end.. Use switch statement
   Sample I/O
       Enter today's date(mm/dd/yyyy): 10/16/2018
         Today is Oct 16th, 2018

4. Use for loop to display the following including the missing numbers/letters
   a. 5 10 15 20 ………..50
   b. 10 20 30 40 ………………100
   c. 20 18 16 …………………..2
   d. A C E G ………Q
   e. r q p ……m