

# Assignment 3

Q1. Write a C program to print pascal triangle.

Q2. Swapping of two no.s (with, without temporary, one line code with xor operator)

Q3. Implement a C program to Differentiate between post, pre decrement operators, consider below mention scenario.

a)  $k=i++$ ,  $k=++i$

b)  $y=x++*10$ ,  $y=++x*10$

c)  $q=p--/3$ ,  $q=-p/3$

Q4. Implement a C program to find out biggest of 3 no.s using conditional operator.

Q5. Write a program to convert time between hh:mm:ss format and total no.of seconds

(note:- you may take the input hh,mm,ss separately, need not be in string form)

( for eg:- 1:2:30 ==> 3750                      8000 ==> 2:13:20 )

Q6. Implement a C program using formatted I/O using printf (%5d, %05d, %-5d,%8.2f, %.2f etc.)

Q7. Implement a C program, where is  $a=10, b=20, c=30$  evaluate the following

$d=++a, ++b, ++c, a+5;$

$d=(++a, ++b, ++c, a+5);$

Q8. Implement a C program based on integer array. Implement method to find average, sum, min element, max element.

Q9. Implement a C program for number conversions (decimal, binary, octal, hexadecimal).

Q 10. Finding day of week based on reference date, say 1 st January 1970 which is Thursday.

(Hint:- calculate no.of days elapsed from reference date to given date)