# Basic Programming Lab

--0x06

# Operator Precedence

Operator	Meaning of operator	Associativity
() [] ->	Functional call Array element reference Indirect member selection Direct member selection	Left to right
! ++ & * sizeof (type)	Logical negation Bitwise(1 's) complement Unary plus Unary minus Increment Decrement Dereference (Address) Pointer reference Returns the size of an object Typecast (conversion)	Right to left
* / %	Multiply Divide Remainder	Left to right
+ -	Binary plus(Addition) Binary minus(subtraction)	Left to right
<< >>	Left shift Right shift	Left to right
< <= > >=	Less than Less than or equal Greater than Greater than or equal	Left to right

# Operator Precedence

Operator	Meaning of operator	Associativity
= !=	Equal to Not equal to	Left to right
&	Bitwise AND	Left to right
^	Bitwise exclusive OR	Left to right
	Bitwise OR	Left to right
& &	Logical AND	Left to right
11	Logical OR	Left to right
?:	Conditional Operator	Right to left
=     *=     /=     %=     +=     -=     &=     ^=      =     <<=     >>=	Simple assignment Assign product Assign quotient Assign remainder Assign sum Assign difference Assign bitwise AND Assign bitwise XOR Assign bitwise OR Assign left shift Assign right shift	Right to left
,	Separator of expressions	Left to right

### break & continue & goto

// Program to check working of break, continue & goto

```
#include <stdio.h>
int main()
{
        int i;
        for (i = 1; i < 20; ++i)
        {
                 printf("\n%d ", i);
                 if (i % 3 == 0)
                 {
                          printf("\n%d is divisible by 3", i);
                          continue;
                 }
                 if (i \% 7 == 0)
                 {
                          printf("\n%d is divisible by 7", i);
                          break;
                          printf("\nNot visible to console");
                 }
        printf("\nOut of loop");
        goto label1;
        if (7 \% 2 == 0)
        {
label1: printf("\nHere");
        }
        return 0;
}
```

## Assignment

//0x06

#### //Use scanf for input in Every Program

- 1. Write a program to print factorial of a number.
- 2. Write a program to print HCF of two numbers.
- 3. Write a program to find the sum of series

$$1 + (1+2) + (1+2+3) + (1+2+3+4) \dots$$

- 4. Write a program to count the no of digits from the input no.
- 5. Write a program to check whether a no is palindrome or not.

#### Points to Remember

- 1. Filetype: .c
- 2. Naming Convention for Directory: Assignment\_X
   where X = Lab No
   example: Assignment 1
- 3. Naming Convention for File: RollNo\_Q\_Y.c
   where Y = Question No in that Assignment
   example: 123XXX4567\_Q\_1.c

#### Commands:

	Command	Example
Create Directory	mkdir <directory_name></directory_name>	mkdir test_directory
Create File	vi <filename></filename>	vi test.c
Compile a C Program	gcc <filename></filename>	gcc test.c
Run a C Program	./a.out	

4. Write your details in every program

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