

PPS Lab Exercise-3 – Operators

1. Find the value of each variables at each line of the code segment

- i) `float d = 1.5, D = 2.5;`
`printf("%d%d",d++ + ++D)`
- ii) `char c = 'A', C = 'a';`
`printf(c++ * ++C)`
- iii) `char ch = '0';`
`printf(ch-- + --ch);`
- iv) `char ch = '1'++;`
`printf(ch);`
- v) `int a = 11++;`
`printf(a);`
- vi) `int i=19, j=29, k;`
`k = i-- - i++ + --j - ++j + --i - j-- + ++i - j++;`
`printf(i);`
`printf(j);`
`printf(k);`

2. Write a C program to print a given year is leap year or not using conditional operator.

3. Find the output of the following code segment

```
int a = 2, b = 3, c = 4, l;  
l = a>b ? a>c ? a : c : b>c ? b : c;
```

4. Show the results of the following statements in binary number

- i) `Num=15, n=3`
`(num >> n) & 1`
- ii) `a=2, b=3, c=4`
`d= a & b | c ^ a`
- iii) `x=12`
`y = x << 4 & 5`

5. Write a C program to check a given number is odd or even using bitwise operators.