Date:

## **PRACTICAL-1**

**Objective** – Write a Program to implement various Bitwise logical operation on given numbers.

## Code-

```
#include<stdio.h>
int main(){
  int a=25; // binary: 11001
  int b=10; // binary: 01010
  printf("a: %d, b: %d\n",a,b);
  // & – Bitwise AND
  printf("Bitwise AND a&b: %d\n",a&b);
  // | – Bitwise OR
  printf("Bitwise OR a|b: %d\n",a|b);
  // ∼ − Bitwise NOT
  printf("Bitwise NOT \sima: %d\n",\sima);
  // ^-XOR
  printf("Bitwise XOR a^b: %d\n",a^b);
  // << - Left Shift
  printf("Left Shift a<<1: %d\n",a<<1);</pre>
  // >> - Right Shift
```

```
printf("Right Shift 1>>b: %d\n",b>>1);
return 0;
}
```

## Output-

```
(base) [rli@rli LAB]$ gcc File1.c -o File1
(base) [rli@rli LAB]$ ./File1

a: 25, b: 10
Bitwise AND a&b: 8
Bitwise OR a|b: 27
Bitwise NOT ~a: -26
Bitwise XOR a^b: 19
Left Shift a<<1: 50
Right Shift 1>>b: 5
(base) [rli@rli LAB]$ ■
```