

## DAY-1

### Program 1

```
#include <stdio.h>

int main()
{
    int a=10,b=100;
    float c=10.5,d=100.5;
    printf("++a = %d\n",++a);
    printf("--b = %d\n",--b);
    printf("++c = %f\n",++c);
    printf("--d = %f\n",--d);
    return 0;
}
```

Output:

A screenshot of a terminal window with a dark background. The window title is "input". The output of the program is displayed in white text: "++a = 11", "--b = 99", "++c = 11.500000", and "--d = 99.500000". At the bottom, there is a green message: "...Program finished with exit code 0" and "Press ENTER to exit console." followed by a cursor icon.

```
input
++a = 11
--b = 99
++c = 11.500000
--d = 99.500000

...Program finished with exit code 0
Press ENTER to exit console.
```

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### Program 2

```
#include<stdio.h>

int main()
{
    int a = 5, b = 5, c = 10;
    printf("%d == %d is %d \n", a, b, a == b);
    printf("%d == %d is %d \n", a, c, a == c);
    printf("%d > %d is %d \n", a, b, a > b);
    printf("%d > %d is %d \n", a, c, a > c);
    printf("%d < %d is %d \n", a, b, a < b);
    printf("%d < %d is %d \n", a, c, a < c);
    printf("%d != %d is %d \n", a, b, a != b);
    printf("%d != %d is %d \n", a, c, a != c);
    printf("%d >= %d is %d \n", a, b, a >= b);
    printf("%d >= %d is %d \n", a, c, a >= c);
    printf("%d <= %d is %d \n", a, b, a <= b);
    printf("%d <= %d is %d \n", a, c, a <= c);
    return 0;
}
```

### Output



```
5 < 5 is 0
5 < 10 is 1
5 != 5 is 0
5 != 10 is 1
5 >= 5 is 1
5 >= 10 is 0
5 <= 5 is 1
5 <= 10 is 1
...Program finished with exit code 0
Press ENTER to exit console.
```

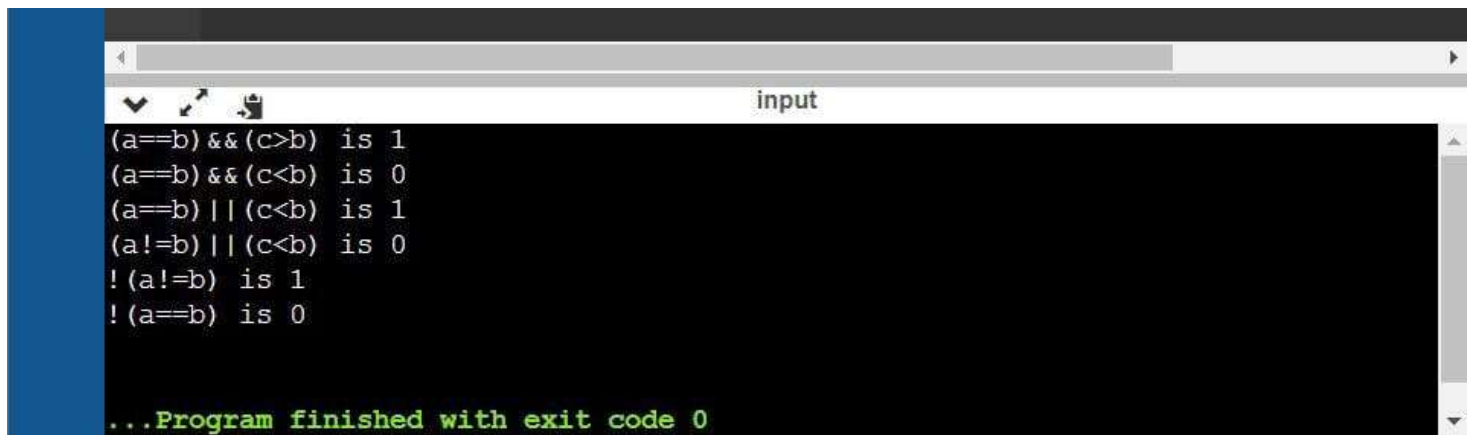
## DAY-1

### Program 3

```
#include <stdio.h>

int main()
{
    int a=5,b=5,c=10,result;
    result = (a==b)&&(c>b);
    printf("(a==b)&&(c>b) is %d\n",result);
    result = (a==b)&&(c<b);
    printf("(a==b)&&(c<b) is %d\n",result);
    result = (a==b) || (c<b);
    printf("(a==b) || (c<b) is %d\n",result);
    result = (a!=b) || (c<b);
    printf("(a!=b) || (c<b) is %d\n",result);
    result = !(a!=b);
    printf("!(a!=b) is %d\n",result);
    result = !(a==b);
    printf("!(a==b) is %d\n",result);
    return 0;
}
```

### Output



```
input
(a==b) && (c>b) is 1
(a==b) && (c<b) is 0
(a==b) || (c<b) is 1
(a!=b) || (c<b) is 0
!(a!=b) is 1
!(a==b) is 0
...Program finished with exit code 0
```

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### Program 4

```
#include<stdio.h>

int main()
{
    printf("Size of int: %zu bytes\n", sizeof(int));
    printf("Size of float: %zu bytes\n", sizeof(float));
    printf("Size of double: %zu bytes\n", sizeof(double));
    printf("Size of char: %zu byte\n", sizeof(char));

    return 0;
}
```

### Output



```
Size of int: 4 bytes
Size of float: 4 bytes
Size of double: 8 bytes
Size of char: 1 byte

...Program finished with exit code 0
Press ENTER to exit console.
```

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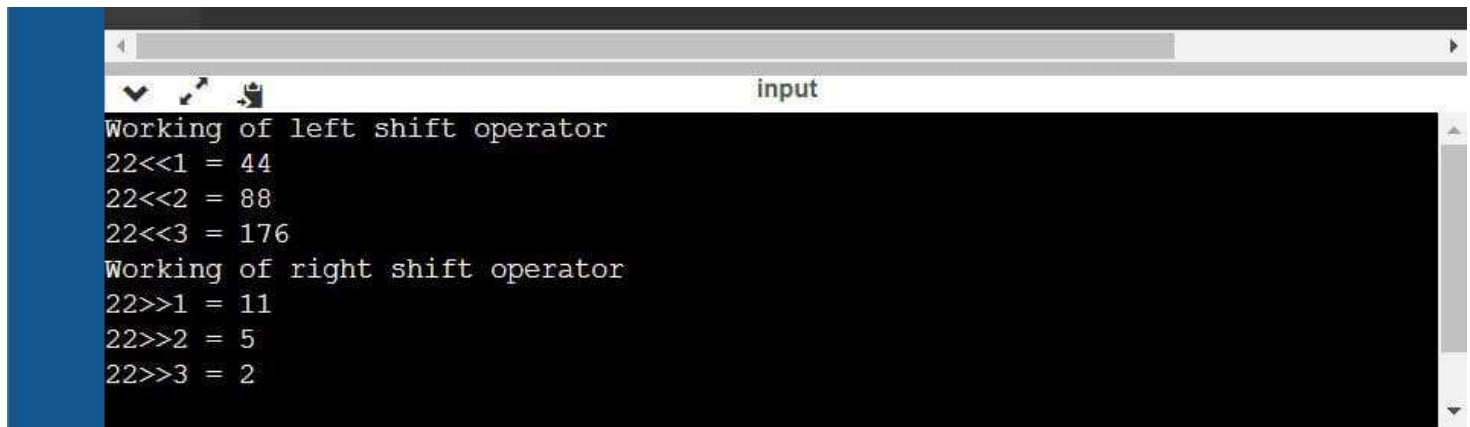
### Program 5

```
#include <stdio.h>

void main()
{
    int num=22;

    printf("Working of left shift operator\n");
    printf("22<<1 = %d\n22<<2 = %d\n22<<3 = %d\n",22<<1,22<<2,22<<3);
    printf("Working of right shift operator\n");
    printf("22>>1 = %d\n22>>2 = %d\n22>>3 = %d",22>>1,22>>2,22>>3);
}
```

### Output



```
input
Working of left shift operator
22<<1 = 44
22<<2 = 88
22<<3 = 176
Working of right shift operator
22>>1 = 11
22>>2 = 5
22>>3 = 2
```

## DAY-1

### Program 6

For 2 numbers:

```
#include<stdio.h>

int main()
{
    int a, b, largest;
    printf("Enter two numbers\n");
    scanf("%d%d",&a,&b);
    largest=(a>b)?a:b;
    printf("The largest number is %d",largest);
    return(0);
}
```

### Output



```
input
Enter two numbers
556 345
The largest number is 556
...Program finished with exit code 0
Press ENTER to exit console.
```

For 3 numbers:

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int a, b, c, largest ;
```

```
    printf("Enter three numbers\n") ;
```

```
    scanf("%d%d%d", &a, &b, &c) ;
```

```
    largest = a > b ? (a > c ? a : c) : (b > c ? b : c) ;
```

```
    printf("The largest number is %d", largest) ;
```

```
    return(0);
```

```
}
```

Output

A screenshot of a Windows command prompt window titled "input". The window has a dark background with white text. The text shows the program's execution: it prompts "Enter three numbers", the user enters "23 56 0", and the program outputs "The largest number is 56". At the bottom, it says "...Program finished with exit code 0" and "Press ENTER to exit console." with a cursor.

```
input
Enter three numbers
23 56 0
The largest number is 56
...Program finished with exit code 0
Press ENTER to exit console.
```