

```
// Working of arithmetic operators
#include <stdio.h>
int main()
{
    int a = 9,b = 4, c;

    c = a+b;
    printf("a+b = %d \n",c);
    c = a-b;
    printf("a-b = %d \n",c);
    c = a*b;
    printf("a*b = %d \n",c);
    c = a/b;
    printf("a/b = %d \n",c);
    c = a%b;
    printf("Remainder when a divided by b = %d \n",c);

    return 0;
}
```

```
// Working of increment and decrement operators
#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;
}

// Working of relational operators
#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;
}

```

```

// Working of logical operators

```

```

#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;
}
```