

FIRST PROGRAM

```
9  #include <stdio.h>
10
11  int main()
12  {
13      int a=10,b=100;
14      float c=10.5,d=100.5;
15      printf("++a=%d\n",++a);
16      printf("--b=%d\n",--b);
17      printf(++c=%f\n",++c);
18      printf("--d=%f\n",--d);
19      return 0;
20  }
21
22
```

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

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

SECOND PROGRAM

```
9 #include <stdio.h>
10
11 int main()
12 {
13     int a=5,b=5,c=10;
14     printf("%d==%d is %d\n",a,b,a==b);
15     printf("%d==%d is %d\n",a,c,a==c);
16     printf("%d>%d is %d\n",a,b,a>b);
17     printf("%d>%d is %d\n",a,c,a>c);
18     printf("%d<%d is %d\n",a,b,a<b);
19     printf("%d<%d is %d\n",a,c,a<c);
20     printf("%d!=%d is %d\n",a,b,a!=b);
21     printf("%d!=%d is %d\n",a,c,a!=c);
22     printf("%d>=%d is %d\n",a,b,a>=b);
23     printf("%d>=%d is %d\n",a,b,a>=c);
24     printf("%d<=%d is %d\n",a,b,a<=b);
25     printf("%d<=%d is %d\n",a,c,a<=c);
26
27
28     return 0;
29 }
30
31
```

5<5 is 0
5<10 is 1
5!=5 is 0
5!=10 is 1
5>=5 is 1
5>=5 is 0
5<=5 is 1
5<=10 is 1

THIRD PROGRAM

```
9  #include <stdio.h>
10
11  int main()
12  {
13      int a=5,b=5,c=10,result;
14      result=(a==b)&&(c>b);
15      printf("(a==b)&&(c>b) is %d\n",result);
16      result=(a==b)&&(c<b);
17      printf("(a==b)&&(c<b) is %d\n",result);
18      result=(a==b)|| (c<b);
19      printf("(a==b)|| (c<b) is %d\n",result);
20      result=(a!=b)|| (c<b);
21      printf("(a!=b)|| (c<b) is %d\n",result);
22      result=! (a!=b);
23      printf("! (a!=b) is %d\n",result);
24      result=(a==b);
25      printf("(a==b) is %d\n",result);
26      return 0;
27  }
```

```
(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 1
```

FOURTH PROGRAM

```
9  #include <stdio.h>
10
11  int main()
12  {
13      int a;
14      char c;
15      float f;
16      double d;
17      printf("size of int variable a is %d\n", sizeof(a));
18      printf("size of character variable c is %d\n", sizeof(c));
19      printf("size of float variable f is %d\n", sizeof(f));
20      printf("size of double variable d is %d\n", sizeof(d));
21
22
23      return 0;
24  }
25
26
27
```

size of int variable a is 4
size of character variable c is 1
size of float variable f is 4
size of double variable d is 8

FIFTH PROGRAM

```
9  #include <stdio.h>
10
11  int main()
12  {
13      int num=22,x,y;
14      printf("Enter the no of shift that has to be done\n");
15      scanf("%d",&n);
16      z=num<<n;
17      printf("left shift=%d\n",z);
18      y=num>>n;
19      printf(" Right shift=%d",y);
20
21
22      return 0;
23  }
24
25
26
```

input

Enter the no of shift that has to be done
2
left shift=88
Right shift=5

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

SIXTH PROGRAM

```
9  #include <stdio.h>
10
11  int main()
12  {
13
14      int a=10,b=5,d=8;
15      int c;
16      c=(a>b)?(a>d?'a':'d'):(b>d?'b':d);
17      printf(" the largest number is %c",c);
18
19
20
21      return 0;
22  }
23
```

the largest number is a

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

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main.c

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7
8 *****/
9 #include <stdio.h>
10
11 int main()
12 {
13
14     int a=10,b=5;
15     int c;
16     c=((a>b)?'a':'b');
17     printf(" the larger number is %c",c);
18
19     return 0;
20
21     return 0;
```

input

```
the larger number is a
...Program finished with exit code 0
Press ENTER to exit console.
```

main (2).c

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