FIRST PROGRAM

```c
 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

```c
#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,b,a>=c);
    printf("%d<=%d is %d\n",a,b,a<=b);
    printf("%d<=%d is %d\n",a,c,a<=c);


    return 0;
}
```

```
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

```c
#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;
}
```

```
(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

```c
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
```

```
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

```c
#include <stdio.h>

int main()
{
    int num=22,n,z,y;
    printf("Enter the no of shift that has to be done\n");
    scanf("%d",&n);
    z=num<<n;
    printf("left shift=%d\n",z);
    y=num>>n;
    printf(" Right shift=%d",y);


    return 0;
}
```

```
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

```c
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.
```

Welcome, *Spoorthi H N*

9

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Language C

main.c

```c
1 /**************************************************************
2
3 Welcome to GDB Online.
4 GDB online is an online compiler and debugger tool for C, C++, Python, Java, PHP, Ruby, Perl,
5 C#, VB, Swift, Pascal, Fortran, Haskell, Objective-C, Assembly, HTML, CSS, JS, SQLite, Prolog.
6 Code, Compile, Run and Debug online from anywhere in world.
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.
```