```
#include<stdio.h>
    int main()
2
3 □ {
4
5
6
7
8
         int num1, num2, output;
         char operator;
         printf("Enter a binary expression:");
         scanf("%d %c %d",&num1,&operator,&num2);
         switch(operator)
9白
             case '+':
10
11
                 output=num1+num2;
12
                 break:
13
             case '-':
                 output=num1-num2;
L4
15
                 break;
16
             case '*':
                 output=num1*num2;
L7
18
                 break;
19
             case '/':
20
                 output=num1/num2;
21
                 break;
22
             case '%':
23
                 output=num1%num2;
24
                 break;
25
             default :
26
                 printf("invalid operation");
27
                 break;
28
29
         printf("%d",output);
30 |
31 | }
         return 0;
```

```
Enter a binary expression:2+3
5
Process exited after 7.252 seconds with return value 0
Press any key to continue . . .
```

```
test.c
 1 #include<stdio.h>
 2
    int main()
 3
 4 □ {
 5
         // a = 5(00000101)
 6
         unsigned short a = 5, b = -8; // 8 = (00001000) and -8 = (00001000 + 11110110 = 11110111)
 7
 8
         //c = 6(00000110) //d = 9(00001001)
 9
                                                                                           C:\Users\sam\Desktop\NOTES\C\test.exe
                                                                                                                                                       signed short c = 6, d = -8;
10
                                                                                          a<<1 = 10
                                                                                          a>>1 = 2
11
         // The result is 00001010
                                                                                          c<<1 = 12
12
         printf("a<<1 = %d\n", a<<1);
                                                                                          c>>1 = 3
13
         // The result is 00000010
14
         printf("a>>1 = %d\n", a>>1);
15
         // The result is 00001100
                                                                                          b<<1 = 131056
16
         printf("c<<1 = %d\n", c<<1);
                                                                                          b>>1 = 32764
17
         // The result is 00000011
                                                                                          d>>1 = -4
                                                                                          d < < 1 = -16
18
         printf("c>>1 = %d\n", c>>1);
19
20
          printf("\n\n");
                                                                                           Process exited after 0.02465 seconds with return value 0
21
                                                                                          Press any key to continue . . .
22
         /*signed short range = 0 to 65,535 */
23
         printf("b<<1 = %d\n", b<<1); // -8 > 1 = (11110111 >> 01111011)
         printf("b>>1 = %d\n", b>>1); // -8<<1 = (11110111 << 111101110)
24
25
26
         /*signed short range = -32,768 to 32,767*/
27
         printf("d>>1 = %d\n", d>>1);
28
29
         printf("d<<1 = %d\n", d<<1);
30
         return 0;
31
32 L }
33
34
35
```

36

```
test.c t.c
1
 2
         #include <stdio.h>
 3
         int main()
 4 🗆
 5
 6
            int i, j, a, n, number[30];
 7
            printf("Enter the value of N \n");
 8
            scanf("%d", &n);
 9
10
            printf("Enter the numbers \n");
11
            for (i = 0; i < n; ++i)
12
                 scanf("%d", &number[i]);
13
            for (i = 0; i < n; ++i)
14
15 🖹
16
                for (j = i + 1; j < n; ++j)
17
18 🖹
19
20
                    if (number[i] > number[j])
21 🗀
22
23
                         a = number[i];
24
                         number[i] = number[j];
25
                         number[j] = a;
26
27
28
29
30
31
32
             printf("The second largest number is \n");
33
                printf("%d\n", number[n-2]);
34
         return 0;
35 L
```

```
t.c [TItcpp

#include<stdio.h>
int main()

{
   int x=10;
   float y=5;
   printf("%f \n",x/y);// Implicit Conversion

printf("%d",x/y);

return 0;
}
```

```
□ C:\Users\sam\Desktop\t.exe
2.000000
0
Process exited after 0.01953 seconds with return value 0
Press any key to continue . . .
```