

Experiment No. _____

Name: _____

PAGE NO.: 05

DATE: / /

Exp-3.1

```
#include <stdio.h>
int main ()
{
    float a, b, c;
    printf ("Enter side a: ");
    scanf ("%f", &a);
    printf ("Enter side b: ");
    scanf ("%f", &b);
    printf ("Enter side c: ");
    scanf ("%f", &c);

    if ((a+b > c) && (b+c > a) && (a+c > b))
        printf ("The triangle is valid\n");
    else
        printf ("The triangle is invalid\n");

    if (a != 0)
        if (a == b && b == c);
        printf ("Triangle is equilateral");
    elseif (a == b || b == c || c == a);
        printf ("Triangle is isosceles");
    elseif
        printf ("Triangle is scalene");
    if ((a*a) + (b*b) == (c*c));
        printf ("Triangle is right angled");
    return 0;}
```

Teacher's Signature: _____

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main.c

```
1 #include <stdio.h>
2
3 int main()
4 {
5     float a, b, c;
6     printf("Enter side a: ");
7     scanf("%f", &a);
8     printf("Enter side b: ");
9     scanf("%f", &b);
10    printf("Enter side c: ");
11    scanf("%f", &c);
12
13
14    if ((a + b > c) && (a + c > b) && (b + c > a))
15        printf("The triangle is valid.\n");
16    else
17        printf("The triangle is NOT valid.\n");
18
19
20    if (a == b && b == c)
21        printf("It is an Equilateral triangle.\n");
22
23    else if (a == b || b == c || a == c)
24        printf("It is an Isosceles triangle.\n");
25
26    else
27        printf("It is a Scalene triangle.\n");
28        if ((a*a + b*b) == (c*c))
29            printf("It is also a Right-angled triangle.\n");
30    return 0;
}
```

Run

Output

Enter side a: 97
Enter side b: 09
Enter side c: 32
The triangle is NOT valid.
It is a Scalene triangle.

=== Code Execution Successful ===

Clear