

Ex 3.1- #include <stdio.h>

1- int main() {
int a, b, c;

printf("Enter three sides of Triangle:");
scanf("%d %d %d", &a, &b, &c);

if ((a+b > c) && (a+c > b) && (b+c > a))

{
if (a == b && b == c) {
printf("The triangle is Equilateral.\n");
}

else if (a == b || b == c || a == c) {
printf("The triangle is Isosceles.\n");
}

else {
printf("The triangle is Scalene.\n");
}

else {
printf("The givent sides do not form triangle.\n");
}

return 0;
}

Teacher's Signature

Teacher's Signature

Code File Edit Selection View Go Run Terminal Window Help

main.c

EXPLORER

OPEN EDITORS

main.c

MAIN.C

.vscode

main.dSYM

#include <stdio.h>

a.out

hello.c

main

main.c

tempCodeRunnerFile

Untitled-1

C main.c M X

C main.c > main()

```
2
3 int main() {
4     int a, b, c;
5
6     // Input sides of the triangle
7     printf("Enter three sides of the triangle: ");
8     scanf("%d %d %d", &a, &b, &c);
9
10    // First check if the triangle is valid
11    if ((a + b > c) && (a + c > b) && (b + c > a)) {
12        // Classification
13        if (a == b && b == c) {
14            printf("The triangle is Equilateral.\n");
15        }
16        else if (a == b || b == c || a == c) {
17            printf("The triangle is Isosceles.\n");
18        }
19        else {
20            printf("The triangle is Scalene.\n");
21        }
22    }
23    else {
24        printf("The given sides do not form a valid triangle.\n");
25    }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
● abhaygupta@192 main.c % ./a.out
Enter three sides of the triangle: 3
3
3
The triangle is Equilateral.
● abhaygupta@192 main.c % gcc main.c
● abhaygupta@192 main.c % ./a.out
Enter three sides of the triangle: 3
3
4
The triangle is Isosceles.
● abhaygupta@192 main.c % gcc main.c
● abhaygupta@192 main.c % ./a.out
Enter three sides of the triangle: 2
3
4
The triangle is Scalene.
```

OUTLINE

TIMELINE

main.c



esc

F1

F2

F3

F4

F5

F6

F7