**Experiment #**

Evaluate area of triangle with 3 sides given.

**Aim :** To evaluate area of a triangle using the formula area=sqrt(s(s-a)(s-b)(s-c)) where a,b,c

are the sides of the triangle and s=(a+b+c)/2

**Objectives :** Study about basic building blocks such as **c**onstants, variables, keywords,

operators, expressions and input output statements in C language.

**Tools/Equipments :** Editors like gedit, vi in linux with gcc (or TurboC editor in windows),

desktop or laptop computer, c-free professional editor etc.

**Algorithm**

Step1: Start

Step2: Input a, b, c

Step3: S=(a+b+c)/2

Step4: A=sqrt(s\*(s-a)(s-b)(s-c))

Step5: PrintA

Step 5: Stop

**Flowchart**

Display A

A=sqrt(s\*(s-a)(s-b)(s-c))

S=(a+b+c)/2

Input a, b, c

**Procedure**

Save program in a file, Compile program, debug errors, Execute or Run program

with necessary inputs. Verify the outputs obtained.

**Program**

**/\*To evaluate area of triangle (sqrt(s(s-a)(s-b)(s-c)\*/**

#include<math.h>

#include<stdio.h>

void main()

{

int a,b,c;

float s,area;

clrscr();

printf("enter the values of a,b,c\n");

scanf("%d%d%d",&a,&b,&c);

s=(a+b+c)/2.0;

area=sqrt(s\*(s-a)\*(s-b)\*(s-c));

printf("\n The area of a trangle is =%f",area);

getch();

}

**Input Output**

enter the values of a,b,c

15

20

30

The area of a trangle is = 133.317

**Result** The program is compiled, executed and the output is verified