**CSE162.9**

**Programming Language I**

**Report Paper 01 [November 10, 2022]**

Problem 01: Find the area of a triangle, which’s values of the base and height are known.

Solution:

#include<stdio.h>

int main (){

    // Area of a Triangle while base and height are given.

    int base, height, area;

    printf("Enter the base & height:\n");

    scanf("%d %d", &base, &height);

    area = 0.5\*base\*height;

    printf("Triangle's area is:%d", area);

return 0;

}

Problem 02: Find the area of a triangle, which’s values of the sides are known.

Solution:

#include<stdio.h>

int main () {

    // Area of a triangle with help of the value of three sides.

    int a, b, c, s, area;

    printf("Enter the values of sides like a b c:\n");

    scanf("%d %d %d", &a, &b, &c);

    s = (a+b+c);

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

    printf("Area of your triangle is: %d", area);

    return 0;

}

Problem 03: Convert Celsius scale value into Fahrenheit scale value.

Solution:

#include<stdio.h>

int main(){

// Conversion of Celsius scale to Fahrenheit scale.

    int c, f;

    printf("Enter your temperature in Celsius scale: ");

    scanf("%d", &c);

    f = ((c/5)\*9)+32;

    printf("Temperature in Fahrenheit scale: %d", f);

    return 0;

}

Problem 04: Find the area of a circle when the radius is known.

Solution:

#include<stdio.h>

int main(){

// Area of a circle with the help of radius.

    int r;

    float pi, area;

    printf("Enter the radius of the circle: ");

    scanf("%d", &r);

    pi = 3.141592;

    area = pi\*r\*r;

    printf("Area of the circle is: %f", area);

    return 0;

}

Problem 05: Find the area of a circle when two sides are known.

Solution:

#include<stdio.h>

int main (){

// Area of a Rectangle with help of the value of length & width.

    int length, width, area;

    printf("Enter the value of length & width like length width:");

    scanf("%d %d",&length, &width);

    area = length\*width;

    printf("Area of Rectangle is: %d", area);

    return 0;

}