1. Write a C program which can input an integer number indicating length (in centimeter scale) of a book

and display length of that book in inch scale. [1 inch = 2.54 centimeter]

#include<stdio.h>

int main(){

int x;

float y;

scanf("%d",&x);

y=x/2.54;

printf("%f",y);}

2. Suppose you have two water containers – one is sphere shaped and another is cubic shaped. Write a

C program which can input two integers indicating radius of a sphere-shaped container and length of

each side of the cubic shaped container. Display volume of each object.

#include<stdio.h>

int main(){

int x,y;

float a,b;

scanf("%d",&x);

scanf("%d",&y);

a=(float)4/3\*3.14\*x\*x\*x;

b=y\*y\*y;

printf("%fvolume of sphere-shaped container \n %fvolume of cubic shaped container.",a,b);}

3. Write a C program which can input length of a book in inch. Display the length in centimetre.

#include<stdio.h>

int main(){

int x;

float y;

scanf("%d",&x);

y=x\*2.54;

printf("%f",y);}

4. Write a C program which can input radius and height of a cylinder and display volume of that cylinder.

#include<stdio.h>

int main(){

int x,y;

float a,b;

scanf("%d",&x);

scanf("%d",&y);

a=3.14\*x\*x\*y;

printf("volume of sphere%f",a); }

5. Write a C program which can input a number which indicates the radius of a circle then display the

circumference of the circle. [Circumference = 2 \* PI \* R]

#include<stdio.h>

int main(){

int x;

float y;

scanf("%d",&x);

y=2\*3.14\*x;

printf("%f",y);

}

6. Write a C program which can input running time of a movie by inputting two numbers mentioning hour and minute of that movie. Display what is the running time of that movie in minutes. Display running time in fractional hour format. As example, if input is 1 hour 15 minutes then one output is 75 minutes and another output is 1.25 hours.

#include<stdio.h>

int main(){

int x,y;

float a,b;

scanf("%d",&x);

scanf("%d",&y);

a=x\*60+y;

b=(float)a/60;

printf("%fminutes\n %fhours",a,b);

7. Write a C program which can input 4 integer numbers from the users and display the ratio between

differences of first two numbers and last two numbers. As example, if input values are A, B, C, and D

then find (A-B)/(C-D).

#include<stdio.h>

int main(){

int x,y,z,p;

float a;

scanf("%d %d %d %d ",&x, &y, &z, &p);

a=(float)(x-y)/(z-p);

printf("%f",a); }

8. Write a program which can input current temperature in Celsius scale and display the temperature in

Fahrenheit scale. [Conversion equation is C/5 = (F-32)/9]

#include<stdio.h>

int main(){

int x;

float y;

scanf("%d",&x);

y=((float)x/5)\*9+32;

printf("%.2f",y); }

9. Write a C program which can input four integer numbers that indicated 2 points in a 2D co-ordinate

system. Display the distance between those two points.

#include<math.h>

#include<stdio.h>

int main(){

float x1,y1,x2,y2, distance;

printf("Enter point 1 (x1, y1)\n");

scanf("%f%f",&x1, &y1);

printf("Enter point 2 (x2, y2)\n");

scanf("%f%f",&x2, &y2);

distance= sqrt((x2-x1)\*(x2-x1)+(y2-y1)\*(y2-y1));

printf("Distance between those two points is%.2f",distance);

}

10. Write a C program which can input length of three sides of a triangle and display the area of the

triangle.

#include<math.h>

#include<stdio.h>

int main(){

int a,b,c;

float s,area,m,n,o,v;

printf("enter the values of the sides:\n");

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

s=(a+b+c)/(float)2;

m=s-a;

n=s-b;

o=s-c;

v=(float)s\*m\*n\*o;

area=sqrt (v);

printf("area of the triangle is %.2f",area);

return 0;

}