CSE115L – Computing Concepts Lab

Input two integers and output their sum:

```
#include<stdio.h>
int main()
{
    int var1, var2;
        scanf("%d%d", &var1, &var2);
        printf("%d + %d = %d\n", var1, var2, var1+var2);
        return 0;
}
#include<stdio.h>
int main()
{
    int var1, var2;
    int result;
        scanf("%d%d", &var1, &var2);
        result = var1 + var2;
        printf("%d + %d = %d\n", var1, var2, result);
        return 0;
}
```

Input two double precision floating point numbers and output their sum and division:

```
#include<stdio.h>
int main()
      double var1, var2;
      int result1, result2;
      scanf("%lf%lf", &var1, &var2);
      result1 = var1 + var2;
      result2 = var1 / var2;
      printf("%lf + %lf = %d\n", var1, var2, result1);
      printf("%lf / %lf = %d\n", var1, var2, result2);
      return 0;
#include<stdio.h>
int main()
      double var1, var2;
      double result1, result2;
      scanf("%lf%lf", &var1, &var2);
      result1 = var1 + var2;
      result2 = var1 / var2;
      printf("%lf + %lf = %.2lf\n", var1, var2, result1);
      printf("%lf / %lf = %.2lf\n", var1, var2, result2);
      return 0;
```

```
#include<stdio.h>
#include<math.h>
int main()
  int x, result;
 printf("Enter a number:");
  scanf("%d",&x);
 result = 2*pow(x,2)+3*x+1;
 printf("%d", result);
  return 0;
#include<stdio.h>
#include<math.h>
int main()
  int x;
 double result;
  printf("Enter a number:");
  scanf("%d",&x);
  result = sqrt(3*pow(x,3)+2*pow(x,2)+4);
  printf("%lf", result);
  return 0;
```

Problems:

1. Write a program to find the average of five numbers. Take all the numbers from user as input.

Sample Output 1:

Enter 5 numbers: 4 8 2 1 5 Average is: 4.00

Sample Output 2:

Enter 5 numbers: 4.1 8.2 2 1.3 5.5 Average is: 4.22

2. Write a program that finds the height and area of a right triangle (90°) using Pythagorean theorem. Take hypotenuse and base as input from the user. Use pow() and sqrt() function.

Sample Output:

Enter base: 3
Enter hypotenuse: 5
Height is: 4.00
Area is: 6.00

3. Write a program to calculate the area and the perimeter of a circle. Take radius as input.

Sample Output:

Enter the radius: 5
Area of the circle: 78.5
Perimeter of the circle: 31.4