

1. Program to find square root of a given number

Code

```
question1.c
1  //Program to find the square root of a given number
2  #include <stdio.h>
3  int main()
4  {
5      float n,s;
6      printf("Enter a number: ");
7      scanf("%f",&n);
8      s=sqrt(n);
9      printf("The square root of number %f is %f.",n,s);
10     return 0;
11 }
```

Output

```
E:\Manish\CProgramming\assignment4\question1.exe
Enter a number: 4.0
The square root of number 4.000000 is 2.000000.
-----
Process exited after 16.56 seconds with return value 0
Press any key to continue . . .
```

2. Program to find power of a given number

Code

```
1 // Program to find power of a given number
2 #include <stdio.h>
3 #include <math.h>
4 int main()
5 {
6     float x, y, power;
7     printf("Enter the base number: ");
8     scanf("%f", &x);
9     printf("Enter the power: ");
10    scanf("%f", &y);
11    power = pow(x, y);
12    printf("The power of %.2f^%.2f is %.2f", x, y, power);
13    return 0;
14 }
```

Output

```
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> ./question2
Enter the base number: 3.2
Enter the power: 2.0
The power of 3.20^2.00 is 10.24%

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```

3. Program to find area and perimeter of a rectangle

Code



```
1 // Program to find area and perimeter of a rectangle
2 #include <stdio.h>
3 int main()
4 {
5     float l, b, area, perimeter;
6     printf("Enter length and bredth: ");
7     scanf("%f%f", &l, &b);
8     area = l * b;
9     perimeter = 2 * (l + b);
10    printf("Area = %f\n", area);
11    printf("Perimeter = %f\n", perimeter);
12    return 0;
13 }
```

Output

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```
> ./question3
Enter length and bredth: 10 12
Area = 120.000000
Perimeter = 44.000000
```

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4. Program to find price of n mangoes given the price of a dozen mangoes.

Code

```

1 // Program to find price of n mangoes given the price of a dozen mangoes
2 #include <stdio.h>
3 int main()
4 {
5     float priceDozen, pricen;
6     int n;
7     printf("Enter price of dozen mangoes: ");
8     scanf("%f", &priceDozen);
9     printf("Enter number of mangoes: ");
10    scanf("%d", &n);
11    pricen = priceDozen / 12 * n;
12    printf("Price of %d mangoes is %f", n, pricen);
13    return 0;
14 }

```

Output

```

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> make question4
make: 'question4' is up to date.
> ./question4
Enter price of dozen mangoes: 1250
Enter number of mangoes: 50
Price of 50 mangoes is 5208.333008%

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```

5. Program to convert pounds to kilometres

Code



```
1 // Program to convert pounds to kilograms
2 #include <stdio.h>
3 int main()
4 {
5     float pounds, kilograms;
6     printf("Enter a value in pounds: ");
7     scanf("%f", &pounds);
8     kilograms = pounds * 0.454;
9     printf("The value in kilograms is %f\n", kilograms);
10    return 0;
11 }
```

Output

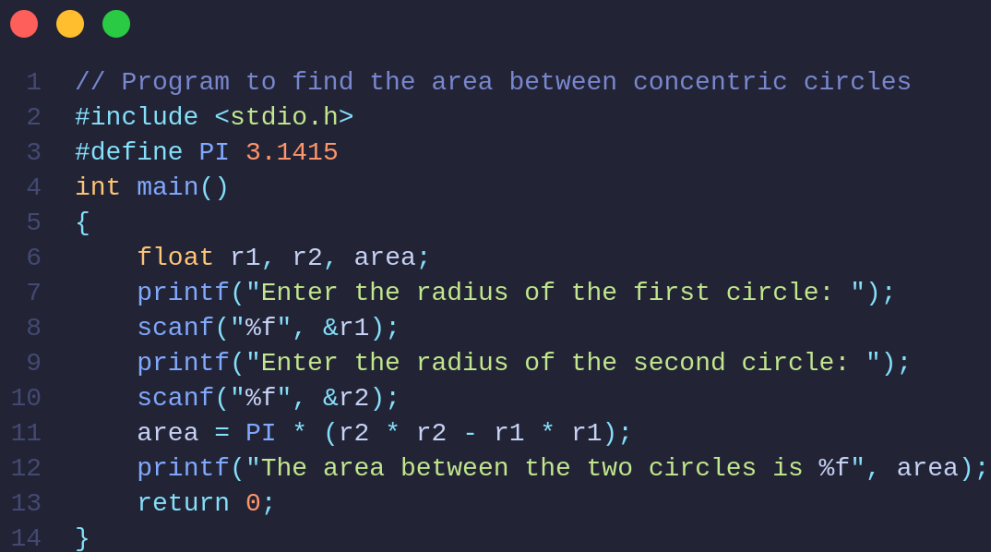
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```
> ./question5
Enter a value in pounds: 87
The value in kilograms is 39.498001
```

```
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```

6. Program to find the area between concentric circles

Code

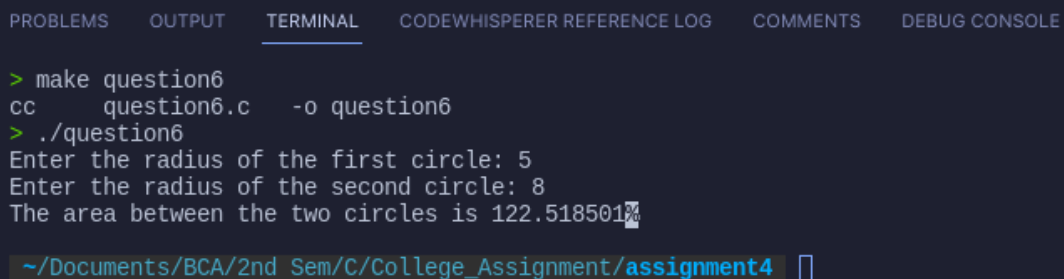


```

1 // Program to find the area between concentric circles
2 #include <stdio.h>
3 #define PI 3.1415
4 int main()
5 {
6     float r1, r2, area;
7     printf("Enter the radius of the first circle: ");
8     scanf("%f", &r1);
9     printf("Enter the radius of the second circle: ");
10    scanf("%f", &r2);
11    area = PI * (r2 * r2 - r1 * r1);
12    printf("The area between the two circles is %f", area);
13    return 0;
14 }

```

Output



```

PROBLEMS  OUTPUT  TERMINAL  CODEWHISPERER REFERENCE LOG  COMMENTS  DEBUG CONSOLE

> make question6
cc      question6.c  -o question6
> ./question6
Enter the radius of the first circle: 5
Enter the radius of the second circle: 8
The area between the two circles is 122.518501%
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```

7. Program to find the area of triangle if measurement of three sides is given.

Code



```
1 // Program to find the area of triangle if measurement of three sides is given
2 #include <stdio.h>
3 #include <math.h>
4 int main()
5 {
6     float a, b, c, s, area;
7     printf("Enter the three sides of triangle: ");
8     scanf("%f%f%f", &a, &b, &c);
9     s = (a + b + c) / 2;
10    area = sqrt(s * (s - a) * (s - b) * (s - c));
11    printf("Area of triangle is %f", area);
12    return 0;
13 }
```

Output

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```
> ./question7
Enter the three sides of triangle: 12 23 32
Area of triangle is 106.507919%
```

```
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```