Problem 1

Problem: Write a C program to enter two numbers and perform all arithmetic operations. (+, -, *, /, %).

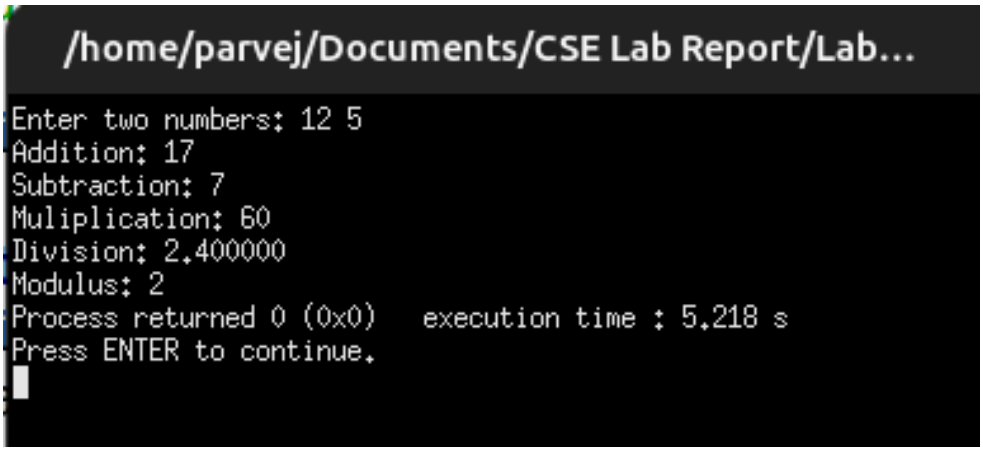
Solution:

Source Code

rt here | exercise1.c

```c
#include<stdio.h>

int main()
{
    int a, b;
    printf("Enter two numbers: ");
    scanf("%d %d", &a, &b);

    printf("Addition: %d\n", a+b);
    printf("Subtraction: %d\n", a-b);
    printf("Muliplication: %d\n", a*b);
    printf("Division: %f\n", (float)a/b);
    printf("Modulus: %d", a%b);

    return 0;
}

```

Input & Output



Problem 2

Problem: Write a C program to enter length and breadth of a rectangle and find its area.

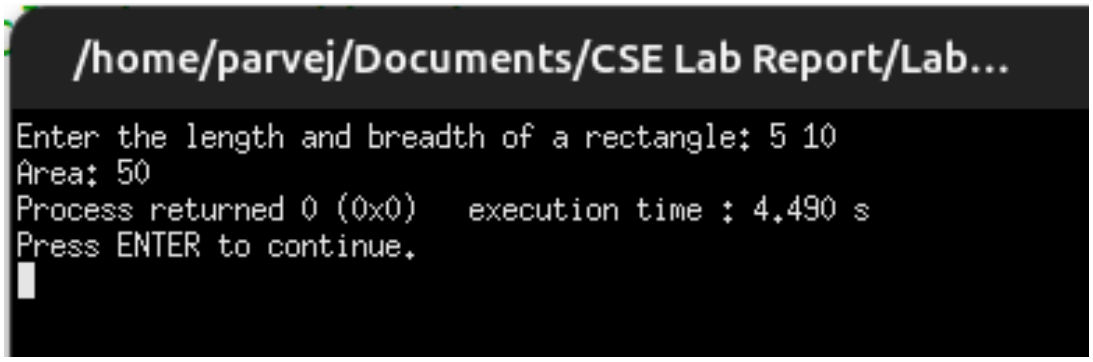
Solution:

Source Code

exercise2.c

```c
#include<stdio.h>

int main()
{
    int length, breadth, area;

    printf("Enter the length and breadth of a rectangle: ");
    scanf("%d %d", &length, &breadth);
    area=length*breadth;

    printf("Area: %d", area);

    return 0;
}
```

Input & Output



Problem 3

Problem: Write a C program to enter temperature in Celsius and convert it into Fahrenheit.

Solution:

Source Code

*exercise3.c

```c
#include<stdio.h>
int main()
{
    float celsius, fahrenheit;
    printf("Enter the temperature in celsius: ");
    scanf("%f", &celsius);
    fahrenheit=(9/5)*celsius+32;

    printf("Fahrenheit: %f", fahrenheit);

    return 0;
}
```

Input & Output

```
/home/parvej/Documents/CSE Lab Report/Lab...
Enter the temperature in celsius: 36.6
Fahrenheit: 68.599998
Process returned 0 (0x0)   execution time : 4.889 s
Press ENTER to continue.
```

Problem 4

Problem: Write a C program to enter base and height of a triangle and find its area.

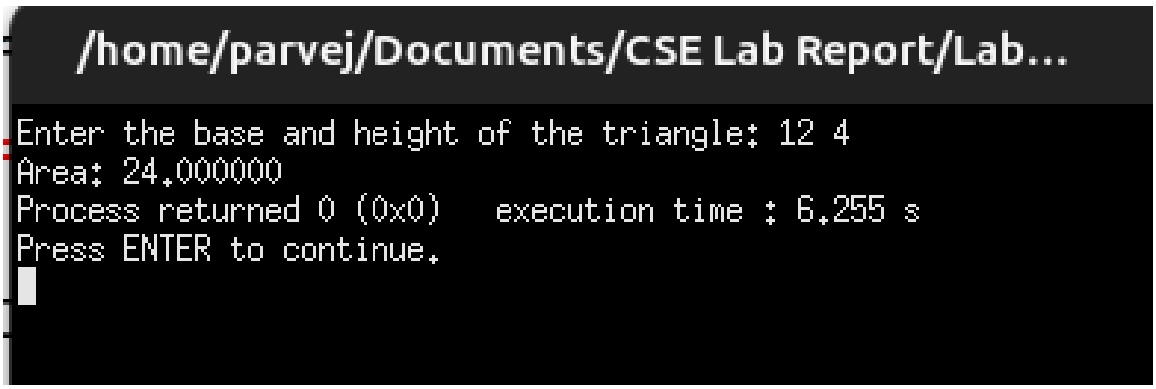
Solution:

Source Code

here exercise4.c

```c
#include<stdio.h>

int main()
{
    float base, height, area;
    printf("Enter the base and height of the triangle: ");
    scanf("%f %f", &base, &height);
    area=.5*base*height;

    printf("Area: %f", area);

    return 0;
}
```

Input & Output



Problem 5

- Write the following code on your complier. List the errors, if any. Find the reasons behind this errors,

```
#include<stdio.h>

int main()
{
    int a,b,c;
    scanf("%d %d", a, &b);
    c= 180-a-b
    printf("%d\n", &c);
    return 0;
}
```

Corrected Code:

exercise5.c

```
1  #include<stdio.h>
2
3  int main()
4  {
5      int a,b,c;
6      scanf("%d %d", &a, &b);
7      c = 180-a-b;
8      printf("%d\n", c);
9      return 0;
10 }
11
```

Problem 6

- Write the following code on your complier. List the errors, if any. Find the reasons behind this errors,

```c
#include<stdio.h>
#define PI acos(-1) // constant value
int main()
{
    double radius, diameter;
    scanf("%lf",& &radius);
    diameter = 2*radius;
    area = PI*radius*radius;

    printf("Diameter = %d\narea = %d", diameter, area);
    return 0;
}
```

Corrected Code:

exercise6.c

```c
#include<stdio.h>
#define PI acos(-1)

int main()
{
    double radius, diameter, area;
    scanf("%lf", &radius);
    diameter=2*radius;
    area=PI*radius*radius;

    printf("Diameter= %lf\narea= %lf", diameter, area);
    return 0;
}
```