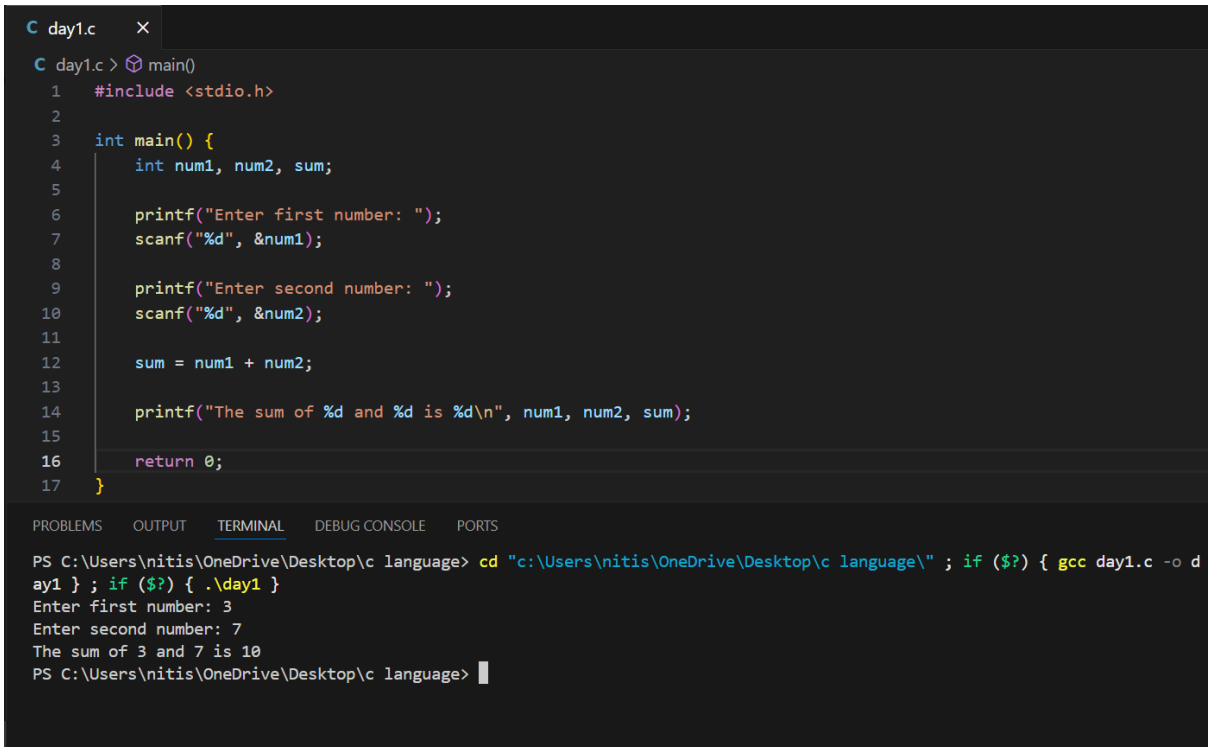
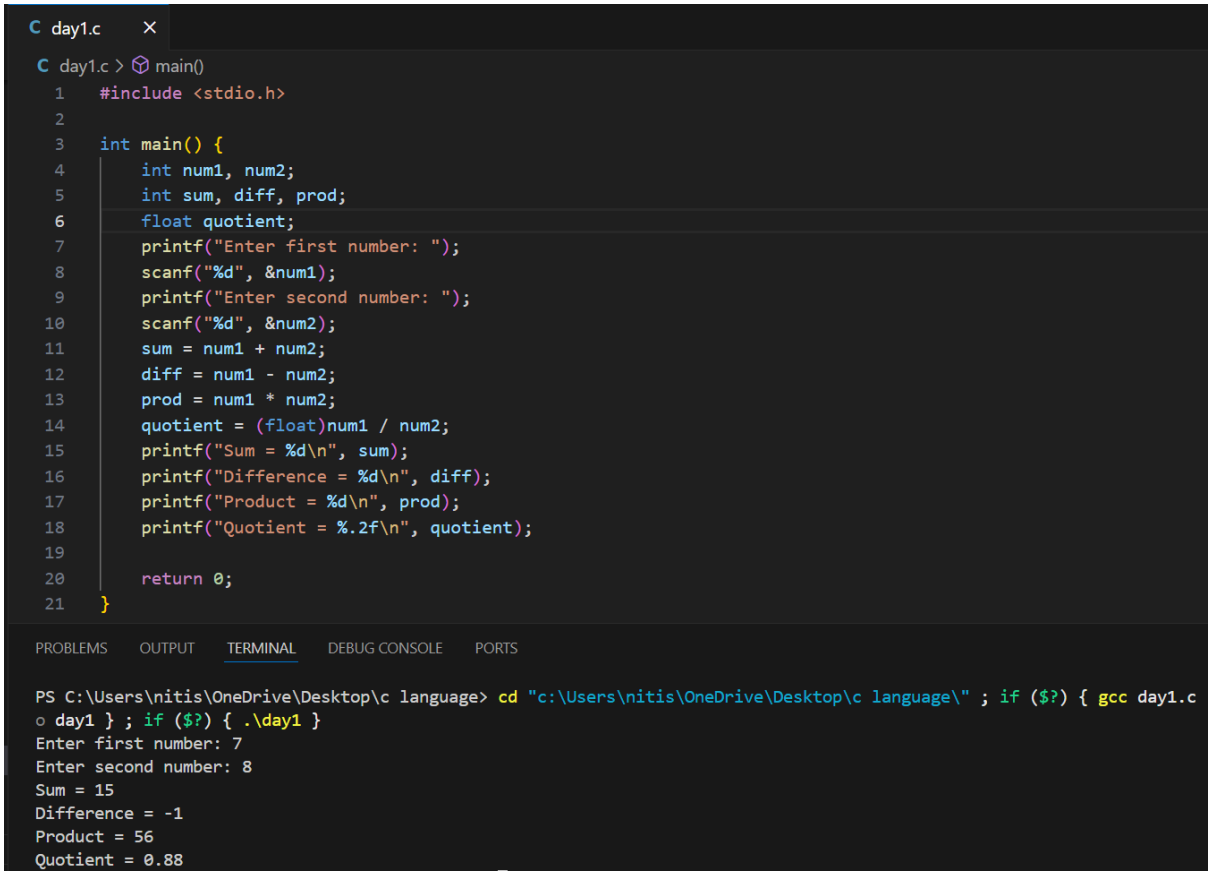
Q1 find sum of 2 number with user input



```c
#include <stdio.h>

int main() {
    int num1, num2, sum;

    printf("Enter first number: ");
    scanf("%d", &num1);

    printf("Enter second number: ");
    scanf("%d", &num2);

    sum = num1 + num2;

    printf("The sum of %d and %d is %d\n", num1, num2, sum);

    return 0;
}
```

```
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if ($?) { gcc day1.c -o d
ay1 } ; if ($?) { .\day1 }
Enter first number: 3
Enter second number: 7
The sum of 3 and 7 is 10
PS C:\Users\nitis\OneDrive\Desktop\c language>
```

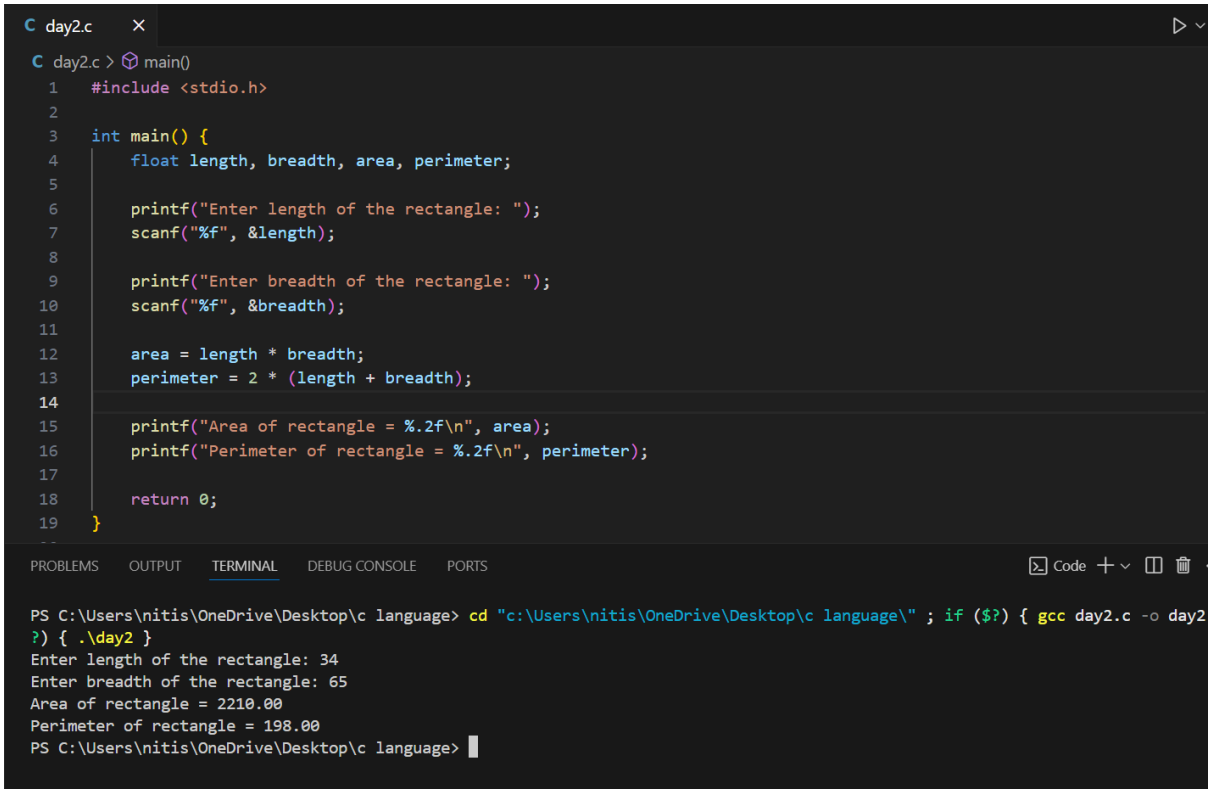
Q2 write a program to input Two numbers and display their sum difference product and Quotient.



```c
#include <stdio.h>

int main() {
    int num1, num2;
    int sum, diff, prod;
    float quotient;
    printf("Enter first number: ");
    scanf("%d", &num1);
    printf("Enter second number: ");
    scanf("%d", &num2);
    sum = num1 + num2;
    diff = num1 - num2;
    prod = num1 * num2;
    quotient = (float)num1 / num2;
    printf("Sum = %d\n", sum);
    printf("Difference = %d\n", diff);
    printf("Product = %d\n", prod);
    printf("Quotient = %.2f\n", quotient);

    return 0;
}
```

```
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if ($?) { gcc day1.c
o day1 } ; if ($?) { .\day1 }
Enter first number: 7
Enter second number: 8
Sum = 15
Difference = -1
Product = 56
Quotient = 0.88
```

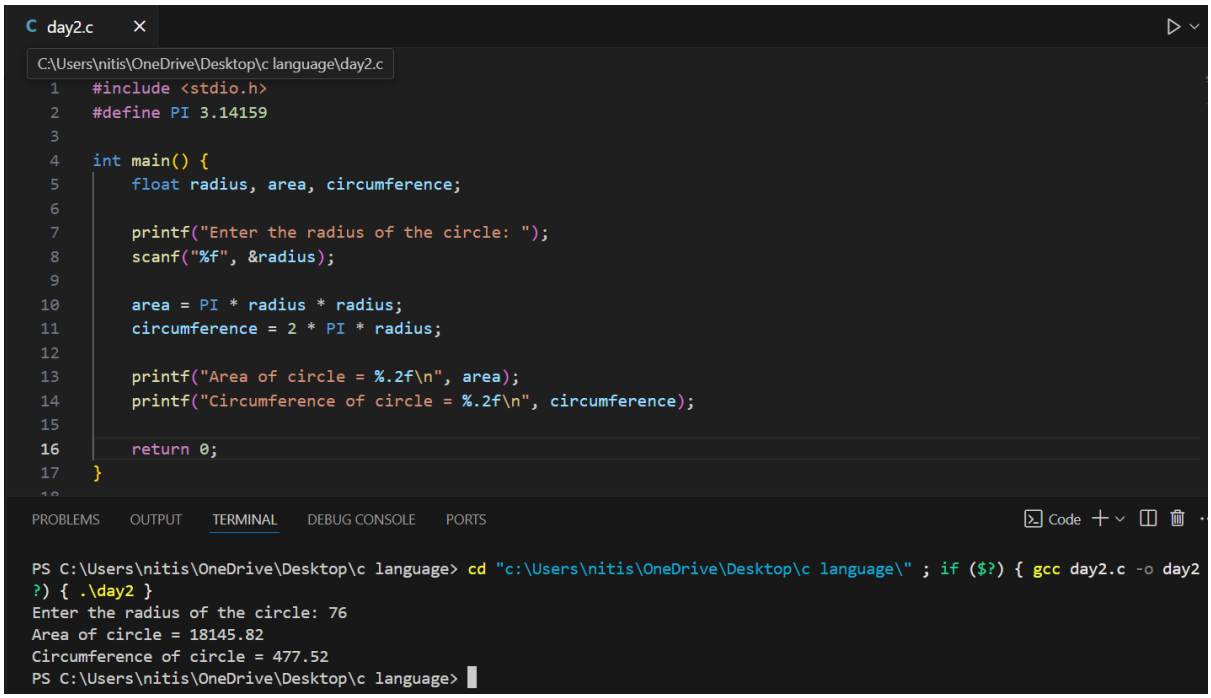
Q3 Write a programme to calculate area and perimeter of a rectangle given its length in breadth.



```c
#include <stdio.h>

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

    printf("Enter length of the rectangle: ");
    scanf("%f", &length);

    printf("Enter breadth of the rectangle: ");
    scanf("%f", &breadth);

    area = length * breadth;
    perimeter = 2 * (length + breadth);

    printf("Area of rectangle = %.2f\n", area);
    printf("Perimeter of rectangle = %.2f\n", perimeter);

    return 0;
}
```

```
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if ($?) { gcc day2.c -o day2
?) { .\day2 }
Enter length of the rectangle: 34
Enter breadth of the rectangle: 65
Area of rectangle = 2210.00
Perimeter of rectangle = 198.00
PS C:\Users\nitis\OneDrive\Desktop\c language>
```

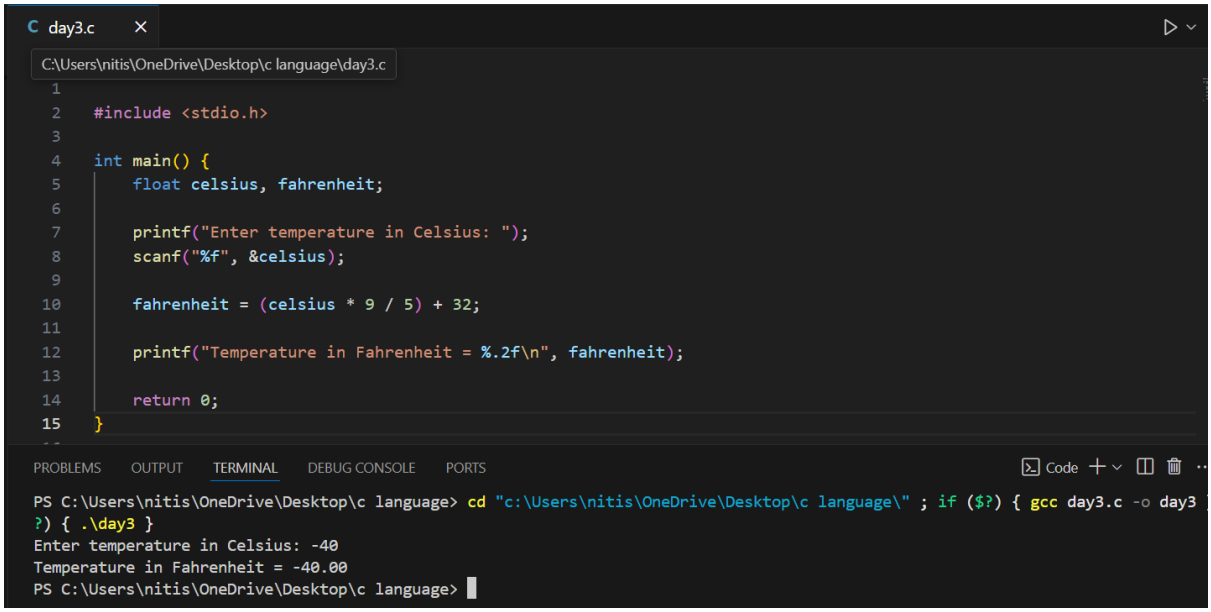
Q4 Write a programme to calculate the area and circumference of a circle given its radius.



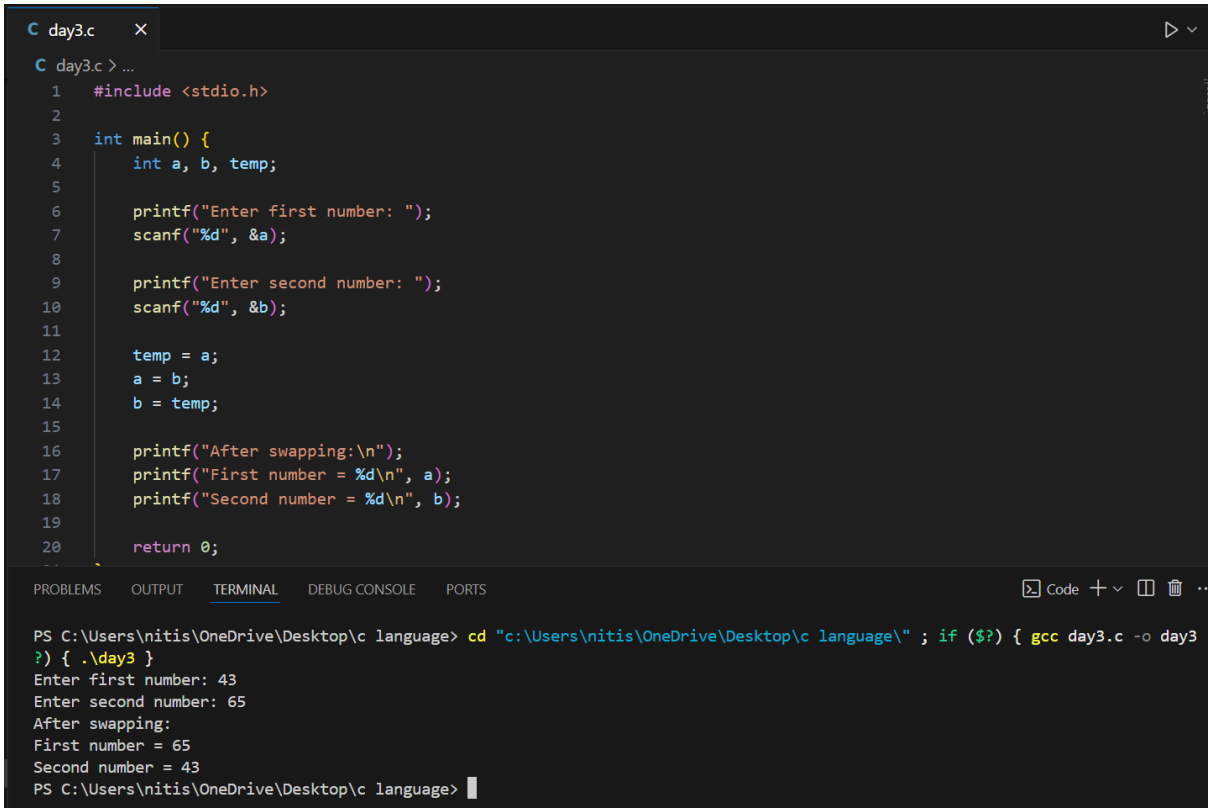
```c
#include <stdio.h>
#define PI 3.14159

int main() {
    float radius, area, circumference;

    printf("Enter the radius of the circle: ");
    scanf("%f", &radius);

    area = PI * radius * radius;
    circumference = 2 * PI * radius;

    printf("Area of circle = %.2f\n", area);
    printf("Circumference of circle = %.2f\n", circumference);

    return 0;
}
```

```
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if ($?) { gcc day2.c -o day2
?) { .\day2 }
Enter the radius of the circle: 76
Area of circle = 18145.82
Circumference of circle = 477.52
PS C:\Users\nitis\OneDrive\Desktop\c language>
```

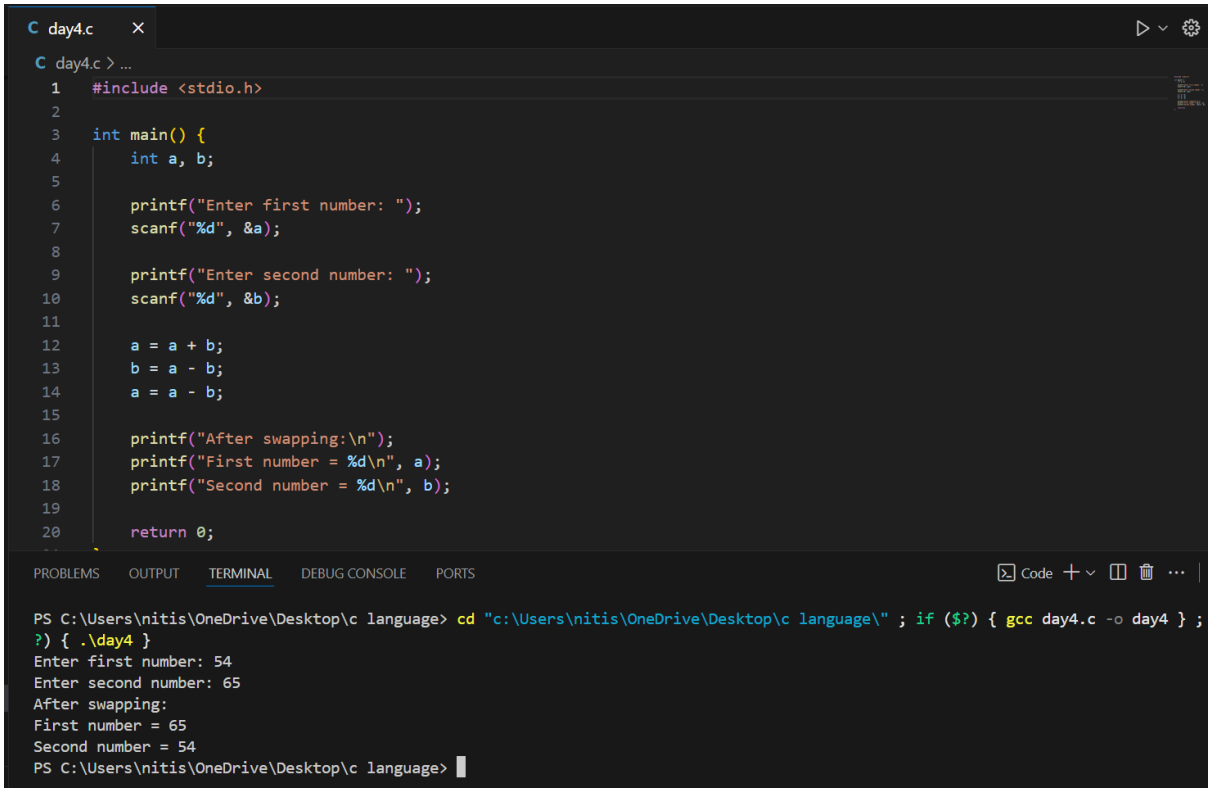
Q5 Write a programme to convert temperature from Celsius to Fahrenheit.



Q6 Write a programme to swap two numbers using 3rd variable.



Q7 Write a programme to swap two numbers without using a 3rd variable.



```c
#include <stdio.h>

int main() {
    int a, b;

    printf("Enter first number: ");
    scanf("%d", &a);

    printf("Enter second number: ");
    scanf("%d", &b);

    a = a + b;
    b = a - b;
    a = a - b;

    printf("After swapping:\n");
    printf("First number = %d\n", a);
    printf("Second number = %d\n", b);

    return 0;
}
```

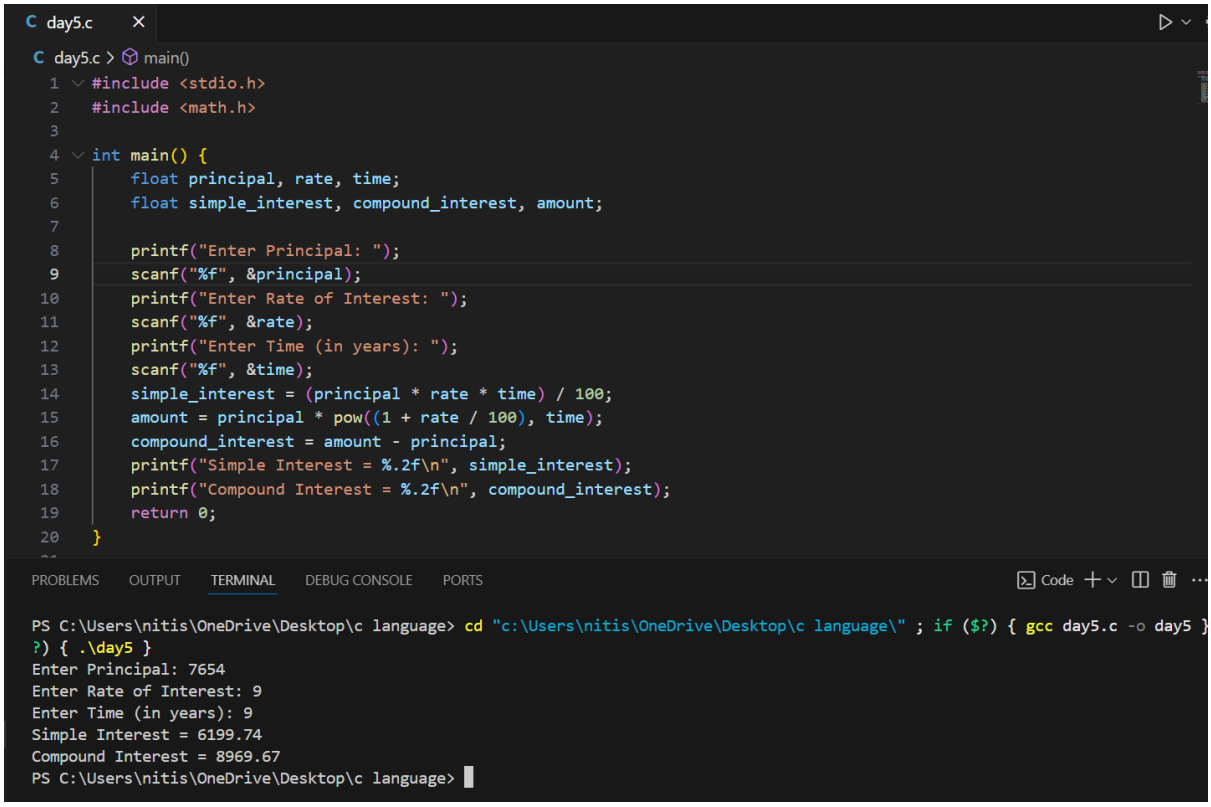
```
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if ($?) { gcc day4.c -o day4 } ;
?) { .\day4 }
Enter first number: 54
Enter second number: 65
After swapping:
First number = 65
Second number = 54
PS C:\Users\nitis\OneDrive\Desktop\c language>
```

Q8 Write a programme to find and display the sum of first n natural numbers.

```c
#include <stdio.h>

int main() {
    int n, sum;

    printf("Enter value of n: ");
    scanf("%d", &n);

    sum = n * (n + 1) / 2;

    printf("Sum of first %d natural numbers = %d\n", n, sum);

    return 0;
}
```

```
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if ($?) { gcc day4.c -o day4
?) { .\day4 }
Enter value of n: 65
Sum of first 65 natural numbers = 2145
PS C:\Users\nitis\OneDrive\Desktop\c language>
```

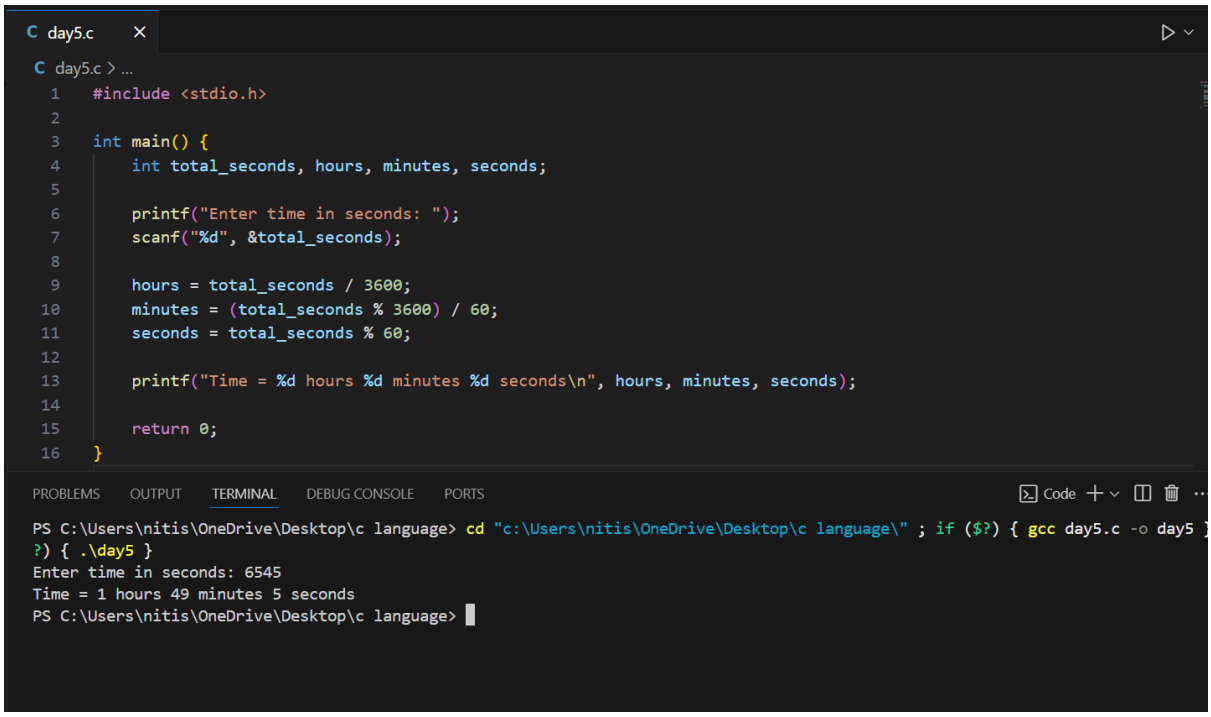
Q9 Write a programme to calculate simple and compound interest for given principal rate and time.



```c
#include <stdio.h>
#include <math.h>

int main() {
    float principal, rate, time;
    float simple_interest, compound_interest, amount;

    printf("Enter Principal: ");
    scanf("%f", &principal);
    printf("Enter Rate of Interest: ");
    scanf("%f", &rate);
    printf("Enter Time (in years): ");
    scanf("%f", &time);
    simple_interest = (principal * rate * time) / 100;
    amount = principal * pow((1 + rate / 100), time);
    compound_interest = amount - principal;
    printf("Simple Interest = %.2f\n", simple_interest);
    printf("Compound Interest = %.2f\n", compound_interest);
    return 0;
}
```

```
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if ($?) { gcc day5.c -o day5 }
?) { .\day5 }
Enter Principal: 7654
Enter Rate of Interest: 9
Enter Time (in years): 9
Simple Interest = 6199.74
Compound Interest = 8969.67
PS C:\Users\nitis\OneDrive\Desktop\c language>
```

Q10 Write programme to input time in seconds and convert it into hours minutes second format.



```c
#include <stdio.h>

int main() {
    int total_seconds, hours, minutes, seconds;

    printf("Enter time in seconds: ");
    scanf("%d", &total_seconds);

    hours = total_seconds / 3600;
    minutes = (total_seconds % 3600) / 60;
    seconds = total_seconds % 60;

    printf("Time = %d hours %d minutes %d seconds\n", hours, minutes, seconds);

    return 0;
}
```

```
PS C:\Users\nitis\OneDrive\Desktop\c language> cd "c:\Users\nitis\OneDrive\Desktop\c language\" ; if ($?) { gcc day5.c -o day5 }
?) { .\day5 }
Enter time in seconds: 6545
Time = 1 hours 49 minutes 5 seconds
PS C:\Users\nitis\OneDrive\Desktop\c language>
```