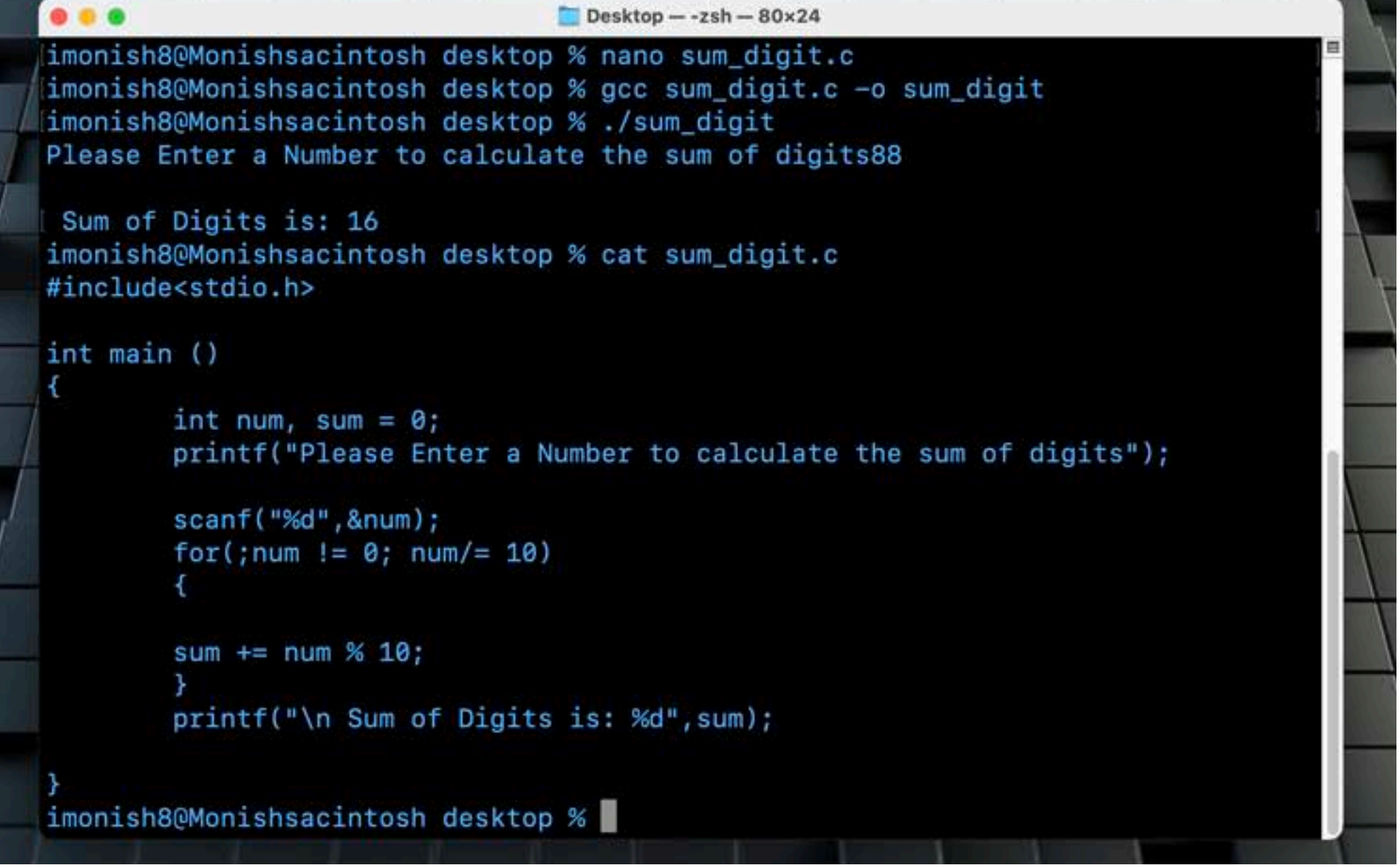


## Sum of Digits -

A terminal window titled "Desktop — zsh — 80x24" is shown. It displays the execution of a C program to calculate the sum of digits of a number. The user enters 88, and the program outputs "Sum of Digits is: 16". Below the output, the source code of the program is displayed using the 'cat' command. The code includes stdio.h, defines a main function that takes a number, calculates the sum of its digits using a loop, and prints the result.

```
imonish8@Monishsacintosh desktop % nano sum_digit.c
imonish8@Monishsacintosh desktop % gcc sum_digit.c -o sum_digit
imonish8@Monishsacintosh desktop % ./sum_digit
Please Enter a Number to calculate the sum of digits88

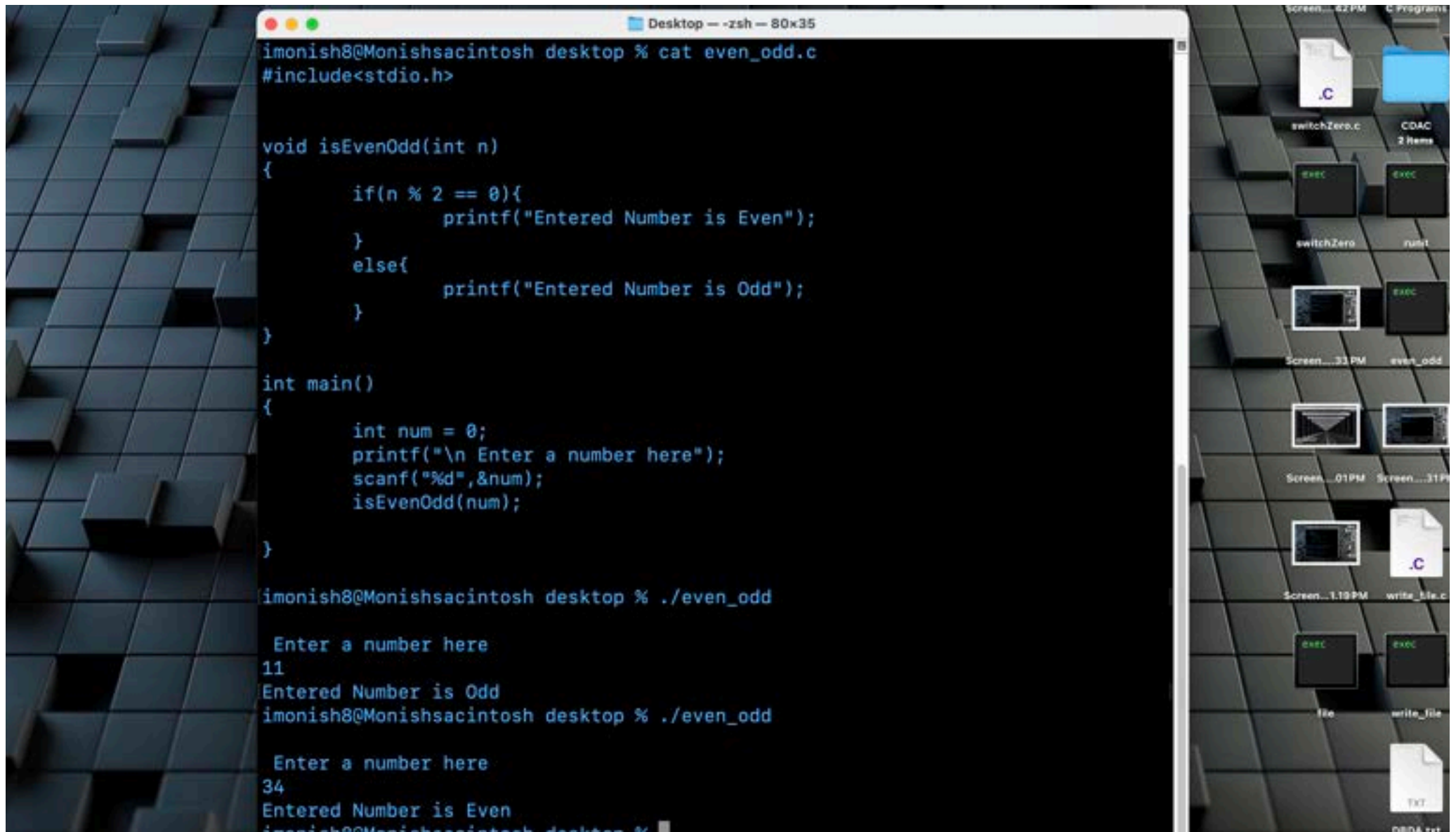
Sum of Digits is: 16
imonish8@Monishsacintosh desktop % cat sum_digit.c
#include<stdio.h>

int main ()
{
    int num, sum = 0;
    printf("Please Enter a Number to calculate the sum of digits");

    scanf("%d",&num);
    for(;num != 0; num/= 10)
    {

        sum += num % 10;
    }
    printf("\n Sum of Digits is: %d",sum);

}
imonish8@Monishsacintosh desktop %
```



```
Desktop -- zsh -- 80x35
imonish8@Monishsacintosh desktop % cat even_odd.c
#include<stdio.h>

void isEvenOdd(int n)
{
    if(n % 2 == 0){
        printf("Entered Number is Even");
    }
    else{
        printf("Entered Number is Odd");
    }
}

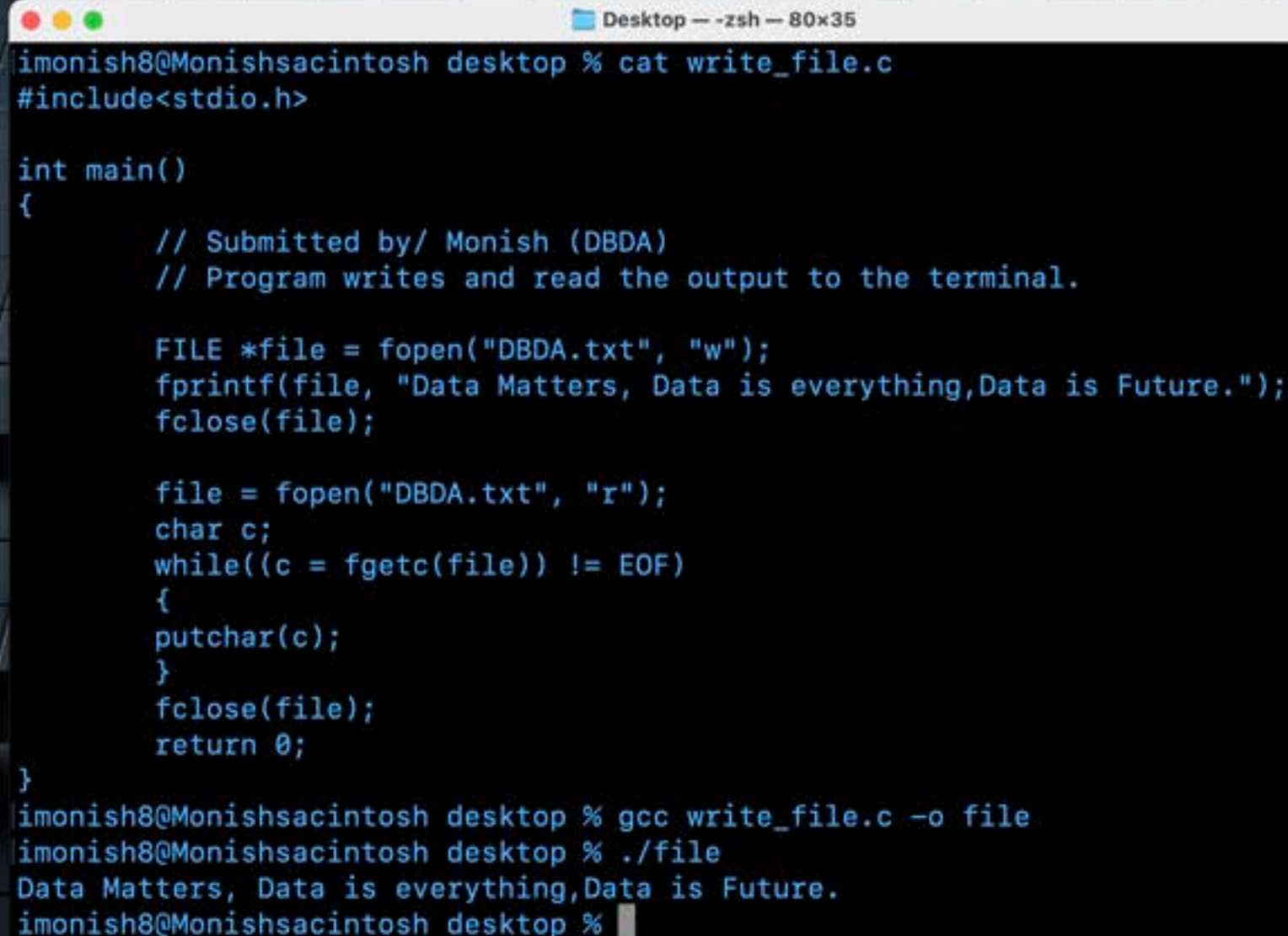
int main()
{
    int num = 0;
    printf("\n Enter a number here");
    scanf("%d",&num);
    isEvenOdd(num);
}

imonish8@Monishsacintosh desktop % ./even_odd

Enter a number here
11
Entered Number is Odd
imonish8@Monishsacintosh desktop % ./even_odd

Enter a number here
34
Entered Number is Even
imonish8@Monishsacintosh desktop %
```

## File Handling



```
Desktop -- zsh -- 80x35
imonish8@Monishsacintosh desktop % cat write_file.c
#include<stdio.h>

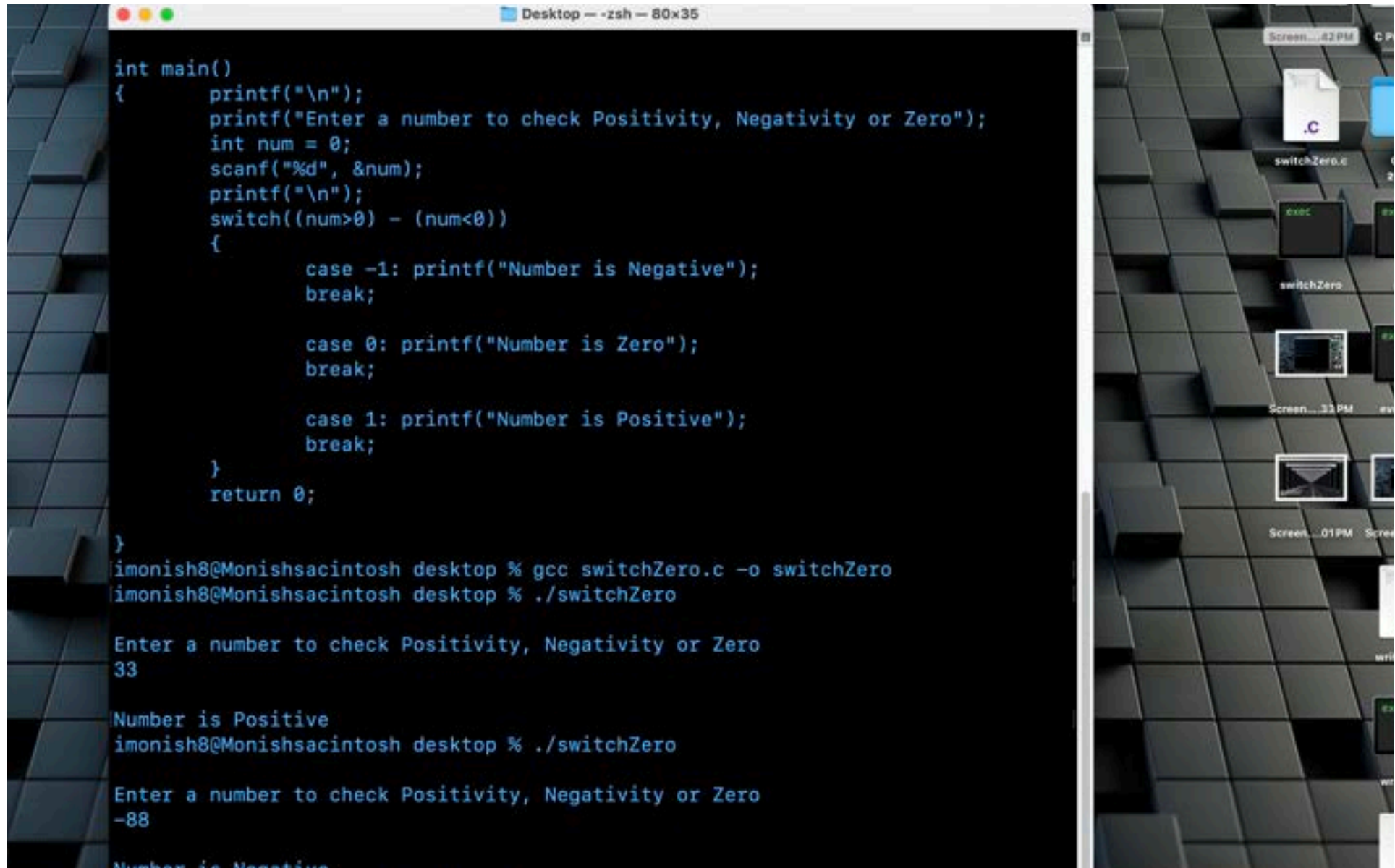
int main()
{
    // Submitted by/ Monish (DBDA)
    // Program writes and read the output to the terminal.

    FILE *file = fopen("DBDA.txt", "w");
    fprintf(file, "Data Matters, Data is everything,Data is Future.");
    fclose(file);

    file = fopen("DBDA.txt", "r");
    char c;
    while((c = fgetc(file)) != EOF)
    {
        putchar(c);
    }
    fclose(file);
    return 0;
}
imonish8@Monishsacintosh desktop % gcc write_file.c -o file
imonish8@Monishsacintosh desktop % ./file
Data Matters, Data is everything,Data is Future.
imonish8@Monishsacintosh desktop %
```



Positivity - Negativity.



```
int main()
{
    printf("\n");
    printf("Enter a number to check Positivity, Negativity or Zero");
    int num = 0;
    scanf("%d", &num);
    printf("\n");
    switch((num>0) - (num<0))
    {
        case -1: printf("Number is Negative");
        break;

        case 0: printf("Number is Zero");
        break;

        case 1: printf("Number is Positive");
        break;
    }
    return 0;
}

imonish8@Monishsacintosh desktop % gcc switchZero.c -o switchZero
imonish8@Monishsacintosh desktop % ./switchZero

Enter a number to check Positivity, Negativity or Zero
33

Number is Positive
imonish8@Monishsacintosh desktop % ./switchZero

Enter a number to check Positivity, Negativity or Zero
-88

Number is Negative
```

TEST SUBMITTED BY MONISH NULE