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Branch: Computer Technology

Section: B

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Subject: Data Structures Lab

Practical – 2

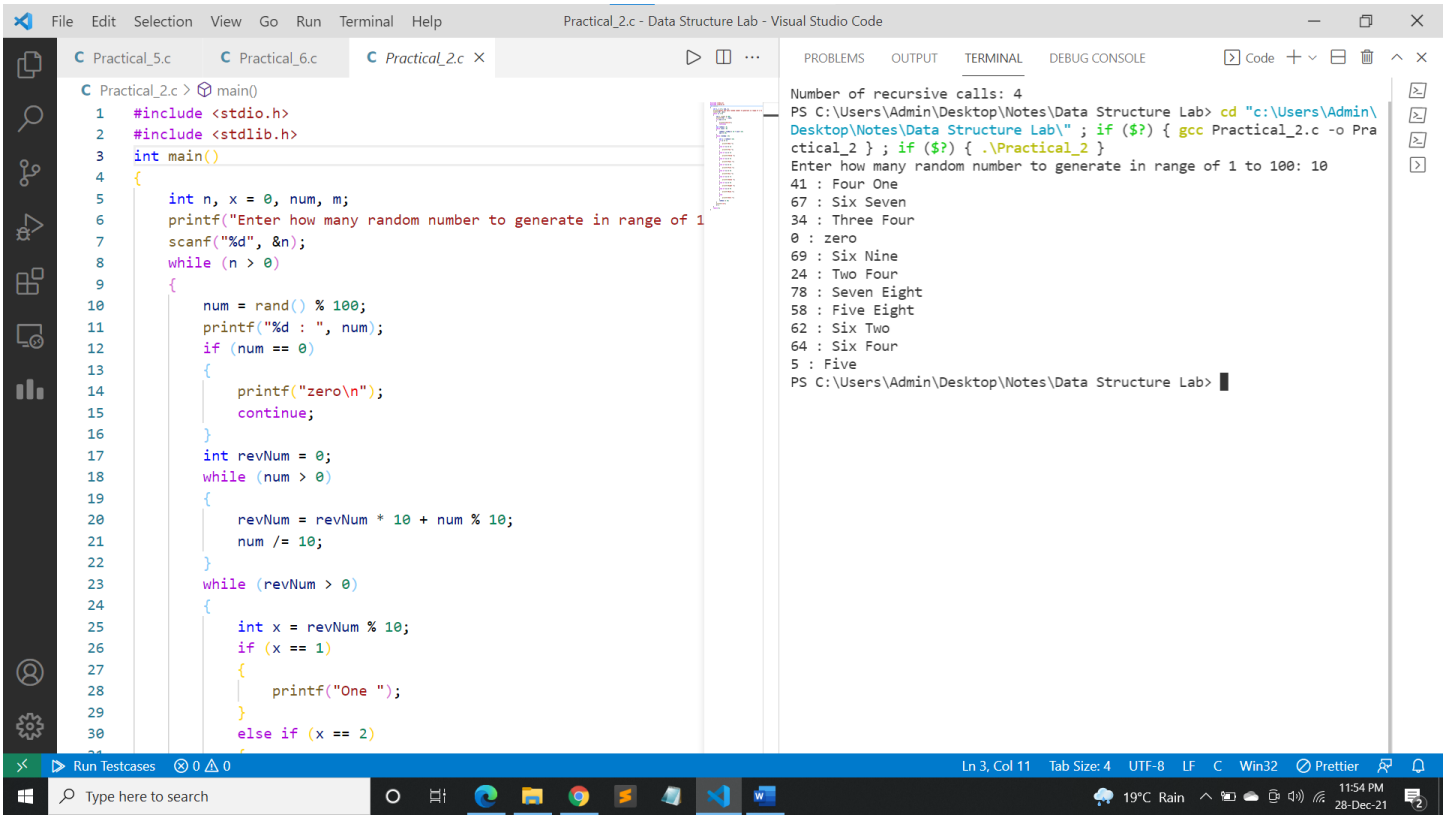
Aim: Program to generate random natural numbers and print them in words.

Program:

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
    int n, x = 0, num, m;
    printf("Enter how many random number to generate in range of 1 to 100: ");
    scanf("%d", &n);
    while (n > 0)
    {
        num = rand() % 100;
        printf("%d : ", num);
        if (num == 0)
        {
            printf("zero\n");
            continue;
        }
        int revNum = 0;
        while (num > 0)
        {
            revNum = revNum * 10 + num % 10;
            num /= 10;
        }
        while (revNum > 0)
        {
            int x = revNum % 10;
            if (x == 1)
            {
                printf("One ");
            }
            else if (x == 2)
            {
                printf("Two ");
            }
            else if (x == 3)
            {
```

```
                printf("Three ");
            }
            else if (x == 4)
            {
                printf("Four ");
            }
            else if (x == 5)
            {
                printf("Five ");
            }
            else if (x == 6)
            {
                printf("Six ");
            }
            else if (x == 7)
            {
                printf("Seven ");
            }
            else if (x == 8)
            {
                printf("Eight ");
            }
            else if (x == 9)
            {
                printf("Nine ");
            }
            else
            {
                printf("Zero ");
            }
            revNum /= 10;
        }
        printf("\n");
        n--;
    }
    return 0;
}
```

Screenshot:



Conclusion: I have successfully completed practical 2.