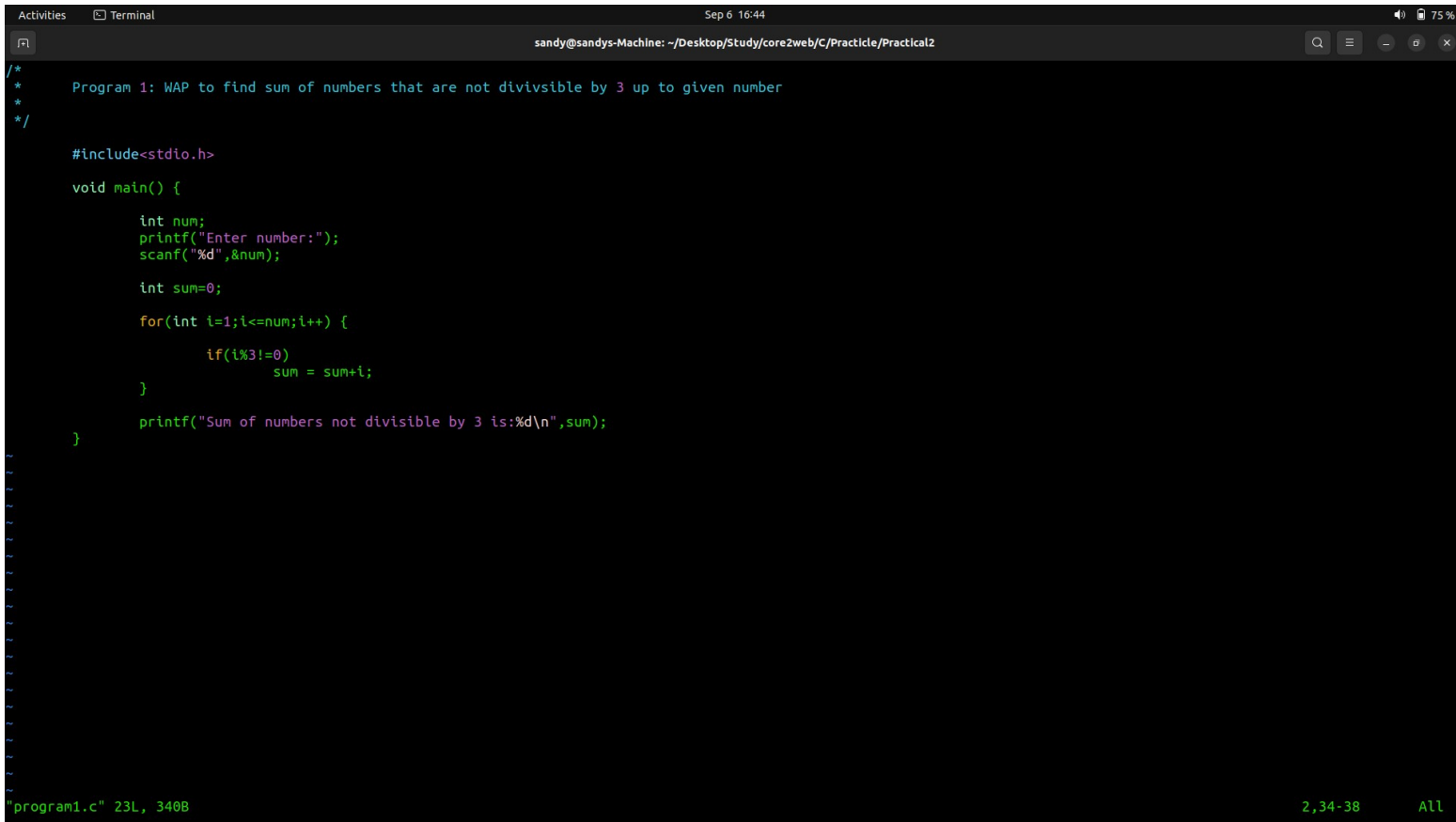


## Practical 2

### Program 1:



```
/*
 * Program 1: WAP to find sum of numbers that are not divisibile by 3 up to given number
 *
 */

#include<stdio.h>

void main() {

    int num;
    printf("Enter number:");
    scanf("%d",&num);

    int sum=0;

    for(int i=1;i<=num;i++) {

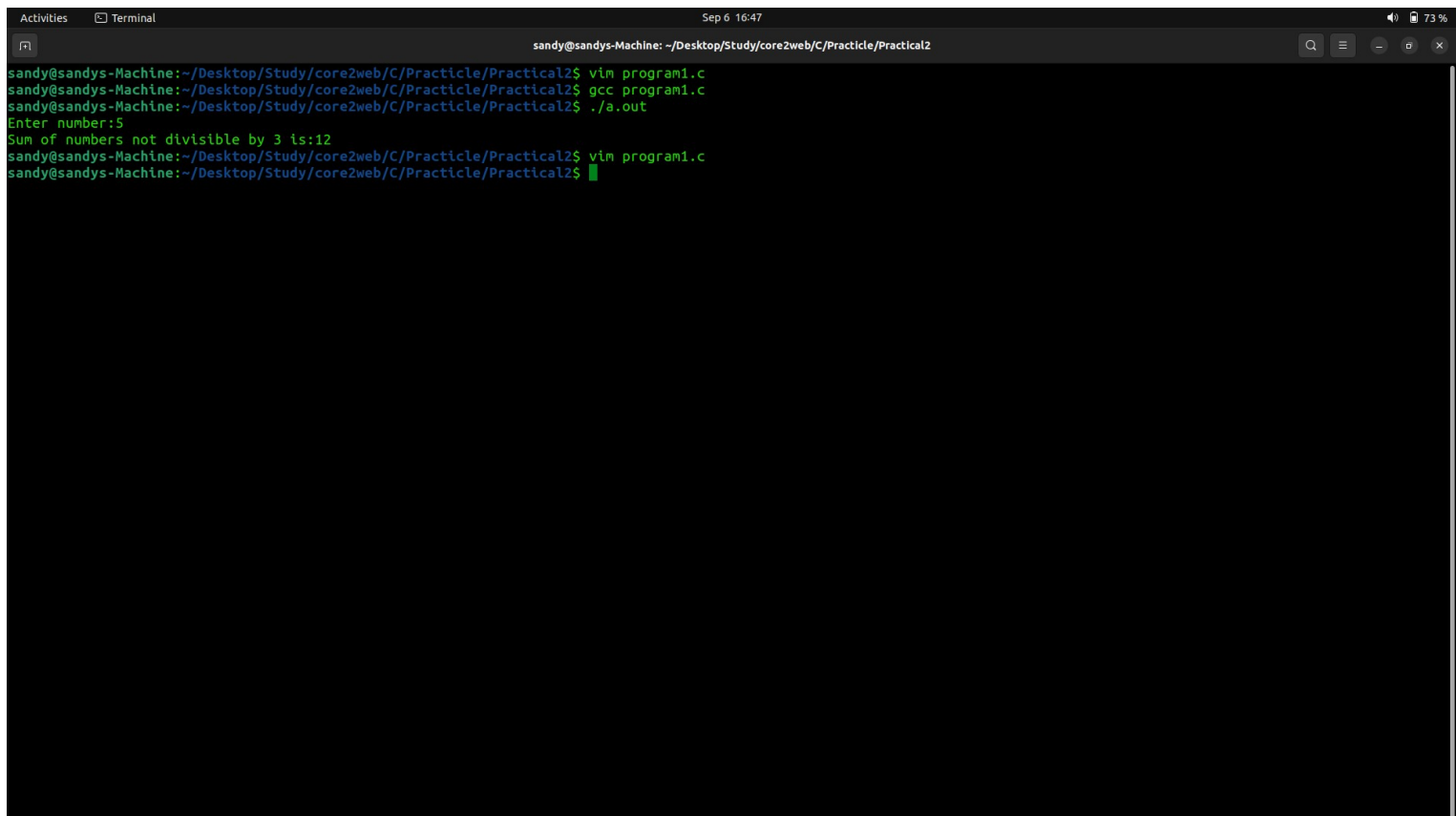
        if(i%3!=0)
            sum = sum+i;

    }

    printf("Sum of numbers not divisible by 3 is:%d\n",sum);

}
```

"program1.c" 23L, 340B 2,34-38 All



```
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ vim program1.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ gcc program1.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:5
Sum of numbers not divisible by 3 is:12
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ vim program1.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ █
```

## Program 2:

```
Activities Terminal Sep 6 16:47
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

/*
 * Program 2: WAP to print the addition of 1 to 10 with 10 to 1
 */

#include<stdio.h>

void main() {
    for(int i=1,j=10;i<=10,j>=1;i++,j--) {
        printf("%d+%d=%d\n",i,j,i+j);
    }
}

"program2.c" 14L, 199B 9,1-8 All
```

```
Activities Terminal Sep 6 16:48
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ vim program2.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ gcc program2.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
1+10=11
2+9=11
3+8=11
4+7=11
5+6=11
6+5=11
7+4=11
8+3=11
9+2=11
10+1=11
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$
```

### Program 3:

```
Activities Terminal Sep 6 16:48
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

/*
 * Program 3: WAP to print the divisors and count of divisors of the entered number
 */

#include<stdio.h>

void main() {

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

    int sum=0,cnt=0;

    printf("The divisors are:");

    for(int i=1;i<=num;i++) {

        if(num%i==0) {
            printf("%d ",i);
            cnt++;
            sum=sum+i;
        }

    }

    printf("\nThe count of divisors is:%d\n",cnt);
    printf("Additions of divisors is:%d\n",sum);

}

"program3.c" 29L, 449B 13,3-17 All
```

```
Activities Terminal Sep 6 16:49
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ vim program3.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ gcc program3.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter a number:15
The divisors are:1 3 5 15
The count of divisors is:4
Additions of divisors is:24
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$
```

## Program 4:

```
Activities Terminal Sep 6 16:49 sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2
/*
 * Program 4: WAP to take a number as input and print weather it is prime or not.
 */

#include<stdio.h>

void main() {
    int num;

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

    int cnt=0;

    if(num==0 || num==1 || num < 0) {
        printf("%d is not a prime number\n",num);
        return;
    }

    for(int i=1;i<=num;i++) {
        if(num%i==0)
            cnt++;
    }

    if(cnt<=2)
        printf("%d is a prime number\n",num);
    else
        printf("%d is not a prime number\n",num);
}

"program4.c" 33L, 477B 13,3-17 All
```

```
Activities Terminal Sep 6 16:50 sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ vim program4.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ gcc program4.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:10
10 is not a prime number
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:13
13 is a prime number
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$
```

## Program 5:

```
Activities Terminal Sep 6 16:50
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

/*
 * Program 5: WAP to print all even numbers in reverse order and odd number in standered way. Both seperately. Within a range
 */

#include<stdio.h>

void main() {
    int startNo,endNo;

    printf("Start:");
    scanf("%d",&startNo);
    printf("End:");
    scanf("%d",&endNo);

    for(int j=endNo;j>=startNo;j--) {
        if(j%2==0)
            printf("%d ",j);
    }
    printf("\n");

    for(int i=startNo;i<=endNo;i++) {
        if(i%2!=0)
            printf("%d ",i);
    }
    printf("\n");
}

"program5.c" 31L, 475B 23,1-8 All
```

```
Activities Terminal Sep 6 16:51
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ vim program5.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ gcc program5.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Start:1
End:10
10 8 6 4 2
1 3 5 7 9
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$
```

## Program 6:

```
Activities Terminal Sep 6 16:51
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

/*
 *
 * Program 6: take input from user and count no of digits
 */

#include<stdio.h>

void main() {
    int num;

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

    int cnt=0,tmp=num;

    while(tmp!=0) {
        cnt++;
        tmp = tmp/10;
    }

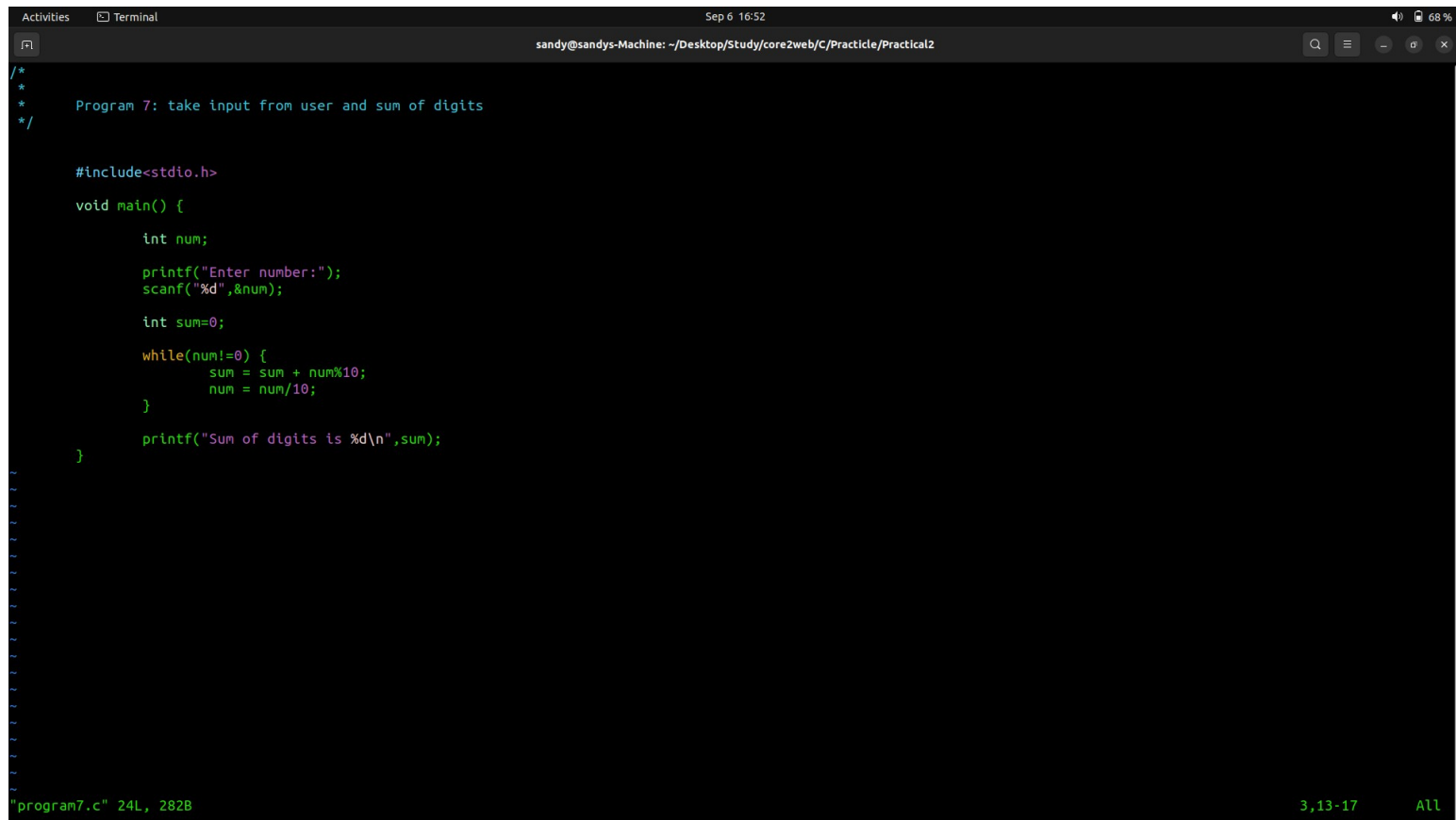
    printf("Number of digits in %d is %d\n",num,cnt);
}

"program6.c" 25L, 298B 24,18-32 All
```

```
Activities Terminal Sep 6 16:52
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ vim program6.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ gcc program6.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:12
Number of digits in 12 is 2
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:123456
Number of digits in 123456 is 6
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$
```

## Program 7:



```
Activities Terminal Sep 6 16:52
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

/*
 *
 *   Program 7: take input from user and sum of digits
 */

#include<stdio.h>

void main() {
    int num;

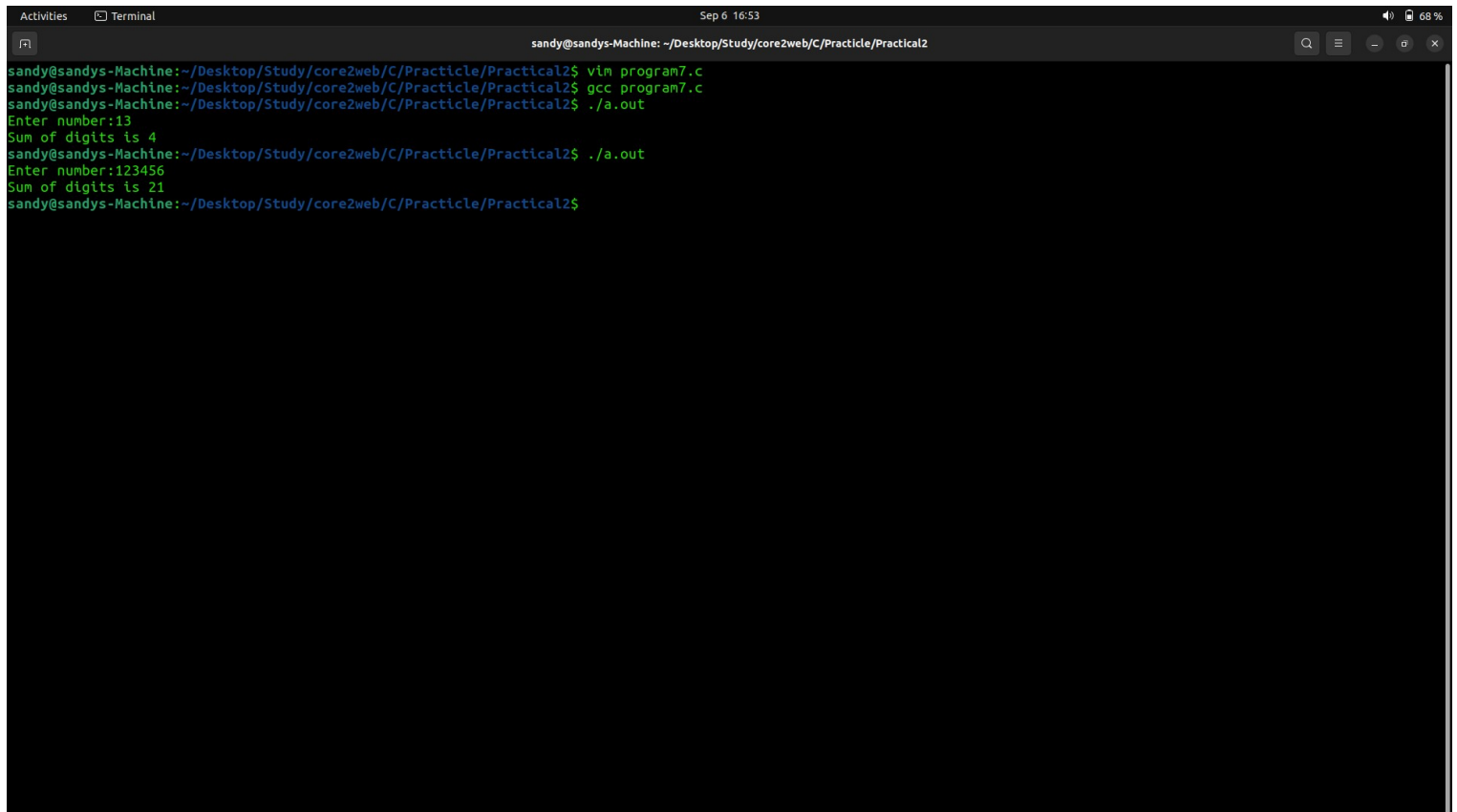
    printf("Enter number:");
    scanf("%d",&num);

    int sum=0;

    while(num!=0) {
        sum = sum + num%10;
        num = num/10;
    }

    printf("Sum of digits is %d\n",sum);
}
```

"program7.c" 24L, 282B 3,13-17 All



```
Activities Terminal Sep 6 16:53
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ vim program7.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ gcc program7.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:13
Sum of digits is 4
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:123456
Sum of digits is 21
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$
```

## Program 8:

```
Activities Terminal Sep 6 16:53
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

/*
 *
 *   Program 8: take input from user and print product of digits
 */

#include<stdio.h>

void main() {
    int num;

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

    int product=1;

    while(num!=0) {
        product = product * (num%10);
        num = num/10;
    }

    printf("Product of digits is %d\n",product);
}

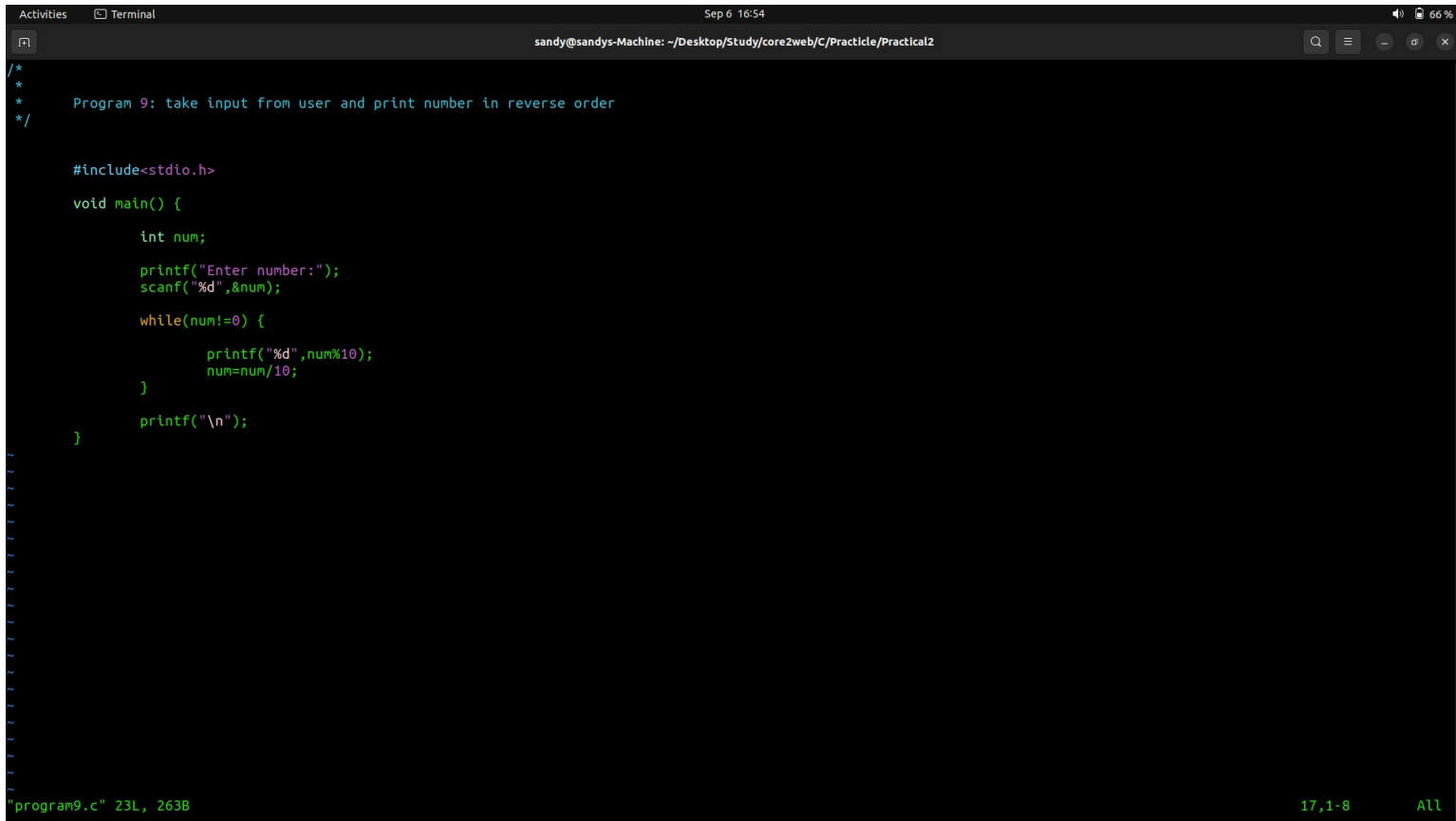
"program8.c" 24L, 314B 3,13-17 All
```

```
Activities Terminal Sep 6 16:54
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ vim program8.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ gcc program8.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:15
Product of digits is 5
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:1231
Product of digits is 6
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$
```



## Program 9:



```
/*
 *
 * Program 9: take input from user and print number in reverse order
 */

#include<stdio.h>

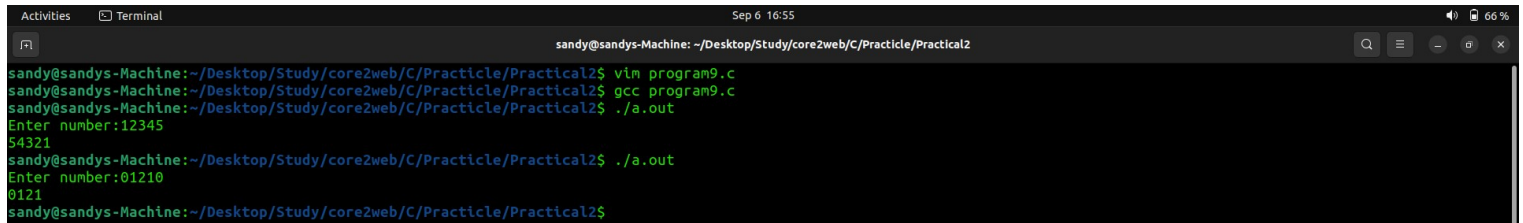
void main() {
    int num;

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

    while(num!=0) {
        printf("%d",num%10);
        num=num/10;
    }

    printf("\n");
}
```

program9.c" 23L, 263B 17,1-8 All



```
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ vim program9.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ gcc program9.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:12345
54321
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:01210
0121
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$
```

## Program 10:

```
Activities Terminal Sep 6 16:55
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

/*
 * Program 10 : Take a number from user and print the fibonacci series up to that number
 */

#include<stdio.h>

void main() {

    int num;
    printf("Enter number:");
    scanf("%d",&num);

    int i=0,j=1,sum=i+j;

    if(num <= 0) {

        printf("Enter number greater than 1\n");

    }else {
        printf("%d %d ",i,j);
        while(sum<=num) {

            printf("%d ",sum);
            i = j;
            j = sum;
            sum = i+j;

        }

        printf("\n");

    }

}

"program10.c" 35L, 439B 21,2-16 All
```

```
Activities Terminal Sep 6 16:57
sandy@sandys-Machine: ~/Desktop/Study/core2web/C/Practicle/Practical2

sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ vim program10.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ gcc program10.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:10
0 1 1 2 3 5 8
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:16
0 1 1 2 3 5 8 13
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ ./a.out
Enter number:25
0 1 1 2 3 5 8 13 21
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$ vim program10.c
sandy@sandys-Machine:~/Desktop/Study/core2web/C/Practicle/Practical2$
```