PF-LAB-6-ASSIGNMENT

```
OUTPUT DEBUG CONSOLE TERMINAL
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>gcc p1.c -o p1.exe
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>p1.exe
Enter a number: 34
Sum= 34
Enter a number: 3656
Sum= 3690
Enter a number: 23
Sum= 3713
Enter a number: -56
Sum= 3657
Enter a number: -786
Sum= 2871
Enter a number: 0
Sum= 2871
Total sum is: 2871
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>
```

```
c p2.c > ② main()
    #include <stdio.h>
    void main() {
        int i, num, digit;
        printf("Enter a number: ");
        scanf("%d", &num);
        i = num;
        while(i != 0) {
            i /= 10;
            digit++;
        }
        if(digit > 1) {
            printf("%d is a multiple digit number.", num);
        } else {
            printf("%d is not a multiple digit number.", num);
        }
}
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>gcc p2.c -o p2.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>p2.exe

Enter a number: 24

24 is a multiple digit number.

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>p2.exe

Enter a number: 4

4 is not a multiple digit number.

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>
```

```
c p3.c > 分 main()
      #include <stdio.h>
      void main() {
          int i, num, digit;
          printf("Enter a number: ");
          scanf("%d", &num);
          i = num;
              i /= 10;
              digit++;
          if(num == 1) {
              printf("%d is neither prime nor composite number.", num);
          else if(digit > 1) {
              if(num %2 == 0) {
                  printf("%d is a multiple digit composite number.", num);
              }else if(num %3 == 0 || num %5 == 0 || num %7 == 0 || num %9 == 0) {
                  printf("%d is a multiple digit composite number.", num);
                  printf("%d is a multiple digit prime number.", num);
          } else if(digit == 1) {
              if(num %2 == 0) {
                  if(num == 2) {
                      printf("%d is a prime number but not a multiple digit.", num);
                      printf("%d is a composite number but not a multiple digit.", num);
              }else if(num %2 != 0) {
                  if(num %3 == 0 && num %9== 0) {
                      printf("%d is a composite number but not a multiple digit.", num);
                      printf("%d is a prime number but not a multiple digit.", num);
```

```
}
}
} else {
   printf("Given number is ZERO.");
}
```

```
TERMINAL
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>gcc p3.c -o p3.exe
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>p3.exe
Enter a number: 37
37 is a multiple digit prime number.
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>p3.exe
Enter a number: 1
1 is neither prime nor composite number.
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>p3.exe
Enter a number: -24
-24 is a multiple digit composite number.
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>p3.exe
Enter a number: -7
-7 is a prime number but not a multiple digit.
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>p3.exe
Enter a number: 9
9 is a composite number but not a multiple digit.
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>gcc p4.c -o p4.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>p4.exe

1, 2, 3, 5, 8, 13,

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>gcc p5.c -o p5.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>p5.exe

65536, 32768, 10922, 2730, 546, 91, 13, 1, 0,

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>gcc p6.c -o p6.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>p6.exe

1, 2, 2, 4, 8, 32, 256, 8192, 2097152,

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-6>
```