## Assignment – 1 (Control Statements and Loops)

1. Write a C program to check positive, negative or zero using simple if or if else. C program to input any number from user and check whether the given number is positive, negative or zero. Logic to check negative, positive or zero in C programming.

```
ASSIGNMENT_01(1).cpp
 1 #include <stdio.h>
  3 □ int main() {
  4
  5
          printf("Enter a number: ");
          scanf("%d", &num);
                                                                    Enter a number: 69
69 is a positive number
  8 🛱
          printf("%d is a positive number\n", num);
}
  9
                                                                     Process exited after 4.372 seconds with return value 0
Press any key to continue . . .
 10
 11 🖨
          else if(num < 0) {
 12
              printf("%d is a negative number\n", num);
 13
 14 E
          printf("%d is zero\n", num);
}
 16
 17
 18
           return 0;
 19 }
Compiler 🍓 Resources 🛍 Compile Log 🥩 Debug 🗓 Find Results
Line: 20 Col: 1 Sel: 0 Lines: 20 Length: 347
```

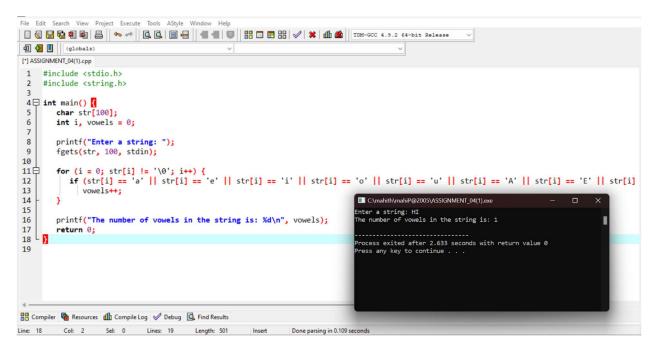
2. Write a C program to check whether a number is divisible by 5 and 11 or not using if else. How to check divisibility of any number in C programming. C program to enter any number and check whether it is divisible by 5 and 11 or not. Logic to check divisibility of a number in C program.

```
ASSIGNMENT_01(1).cpp ASSIGNMENT_02(1).cpp
 1 #include <stdio.h>
  3 ☐ int main() {
  4
          int num:
          printf("Enter a number: ");
                                                                                     C:\mahith\mahiP@2005\ASSIGNMENT_02(1).exe
          scanf("%d", &num);
                                                                                      er a number: 69
is not divisible by both 5 and 11
  8 🖹
          if(num % 5 == 0 && num % 11 == 0) {
               printf("%d is divisible by both 5 and 11\n", num);
  9
                                                                                     rocess exited after 3.795 seconds with return value 0 ress any key to continue . . . _
 10
 11日
12
13
               printf("%d is not divisible by both 5 and 11\n", num);
 14
 15
           return 0;
16 L }
Compiler Resources ( Compile Log Debug  Find Results
Line: 17 Col: 1 Sel: 0 Lines: 17 Length: 322
                                                           Insert Done parsing in 0.016 seconds
```

3. Write a C program to input a character from user and check whether the given character is alphabet or not using if else. How to check whether a character is alphabet or not in C programming. Logic to check if a character is alphabet or not in C program.

```
(globals)
ASSIGNMENT_01(1).cpp ASSIGNMENT_02(1).cpp ASSIGNMENT_03(1).cpp
 1 #include <stdio.h>
 3 ☐ int main() {
 4
          char ch
          printf("Enter a character: ");
          int( there a character. );
scanf("%e", &ch);
if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z')) {
    printf("%c is an alphabet.\n", ch);</pre>
                                                                             C:\mahith\mahiP@2005\ASSIGNMENT_03(1).exe
 8
                                                                               nter a character: 2
is not an alphabet.
 9
          } else {
10
             printf("%c is not an alphabet.\n", ch);
11
          return 0;
                                                                               rocess exited after 1.727 seconds with return value 0
13 L }
14
Compiler Resources Compile Log Debug 🖟 Find Results
Line: 14 Col: 1 Sel: 0 Lines: 14 Length: 309
```

4. Write a C program to count the Vowels in the given string.



5. Write a C program to input character from user and check whether character is uppercase or lowercase alphabet using if else. How to check uppercase and lowercase using if else in C programming. Logic to check uppercase and lowercase alphabets in C program.

```
File Edit Search View Project Execute Tools AStyle Window Help
回 🖢 🔳 (globals)
[*] ASSIGNMENT_04(1).cpp ASSIGNMENT_05(1).cpp
 1 #include <stdio.h>
 3 ☐ int main() {
        char ch:
                                                                C:\mahith\mahiP@2005\ASSIGNMENT_05(1).exe
       printf("Enter a character: ");
       scanf("%c", &ch);
                                                                 ne character is an uppercase alphabet.
 8
                                                                 rocess exited after 3.779 seconds with return value 0
       if (ch >= 'a' && ch <= 'z')
         printf("The character is a lowercase alphabet.\n");
10
                                                                  ess any key to continue . . . _
11
        else if (ch >= 'A' && ch <= 'Z')
12
         printf("The character is an uppercase alphabet.\n");
13
14
        else
        printf("The character is not an alphabet.\n");
15
        return 0;
17
18
Compiler Resources Compile Log 🖉 Debug 🗓 Find Results
Line: 18 Col: 1 Sel: 0 Lines: 18 Length: 382
```

6. Write a C program to input amount from user and print minimum number of notes (Rs. 500, 100, 50, 20, 10, 5, 2, 1) required for the amount. How to the minimum number of notes required for the given amount in C programming. Program to find minimum number of notes required for the given denomination. Logic to find minimum number of denomination for a given amount in C program.

```
File Edit Search View Project Execute Tools ASyle Window Help

(92 clobals)

(92 clobals)

(92 clobals)

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(93 clobals)

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(95 clobals)

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(95 clobals)

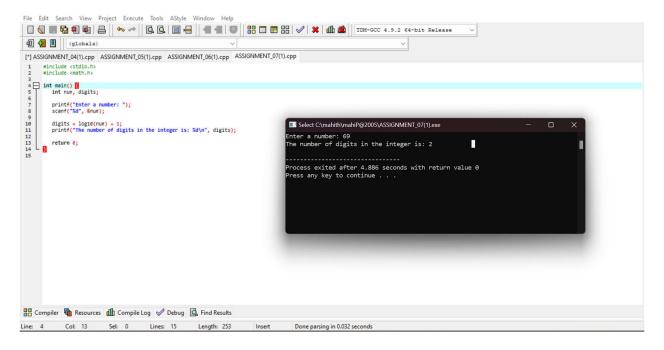
(96 clobals)

(96 clobals)

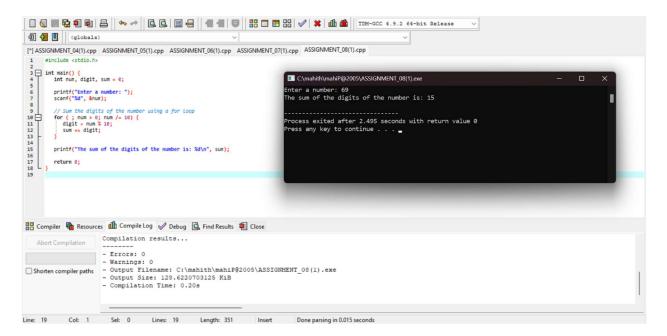
(97 clobals)

(98 cloba
```

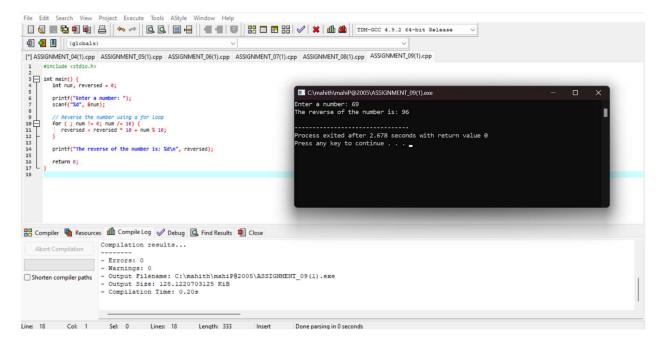
7. Write a C program to input a number from user and count number of digits in the given integer using loop. How to find total digits in a given integer using loop in C programming. Logic to count digits in a given integer without using loop in C program.



8. Write a C program to input a number and calculate sum of digits using for loop. How to find sum of digits of a number in C program. Logic to find sum of digits of a given number in C programming.



9. Write a C program to input a number from user and find reverse of the given number using for loop. How to find reverse of any number using loop in C program. Logic to find reverse of a number in C programming.



10. Write a C program to input decimal number from user and convert to binary number system. How to convert from decimal number to binary number system in C program. Logic to convert decimal to binary number system in C programming.

