#### Assignment No.: 1

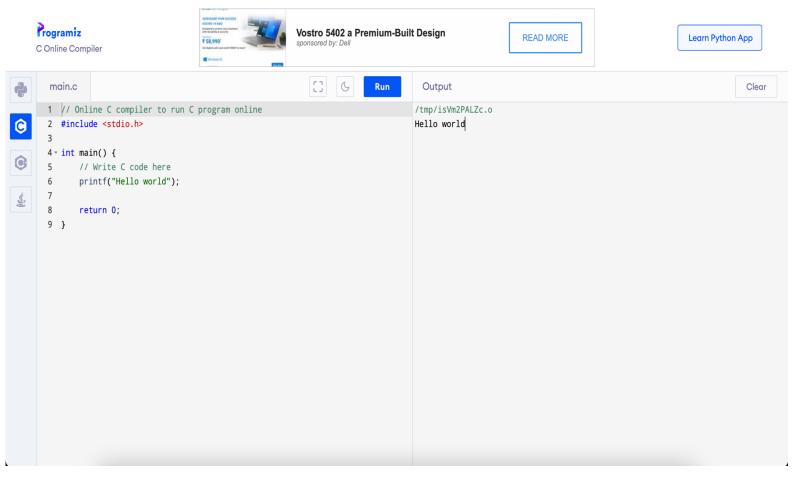
Q] Write a program in C language to display a message on screen.

### ALGORITHM:--

STEP 1- START

STEP 2 - PRINT "Hello World"

STEP 3 - STOP

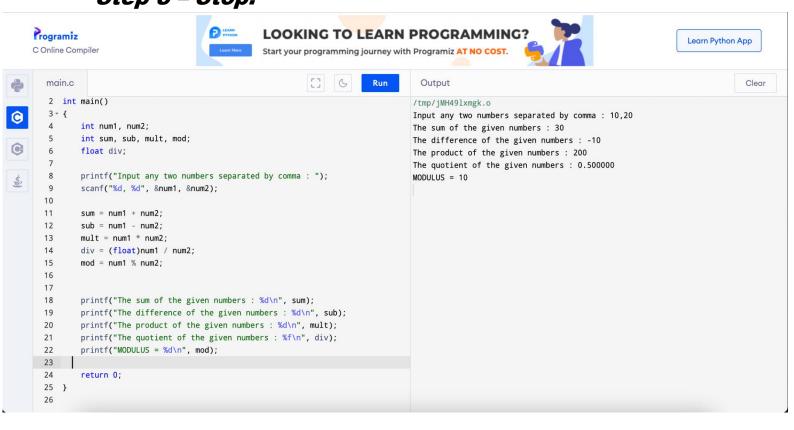


Q] WACP to read two numbers and perform various arithmetic operations on them like Addition, Subtraction, Multiplication, Division & Modulo Division.

#### ALGORITHM:--

- Step 1 Start.
- Step 2 Read a, b.
- Step 3 Add num1 and num2 and store them in variable sum.
- Step 4 Subtract num1 and num2 and store them in variable sub.
- Step 5 Multiply num1 and num2 and store them in variable mult.
- Step 6 Divide num1 and num2 and store them in variable div.
- Step 7 Calculate modules of num1 and num2 and store them in variable mod.

  Step 8 Stop.



## Q] WACP to swap two integer numbers without using 3<sup>rd</sup> variable

#### ALGORITHM:--

```
Step 1 - Start.
```

Step 2 – Read x, y.

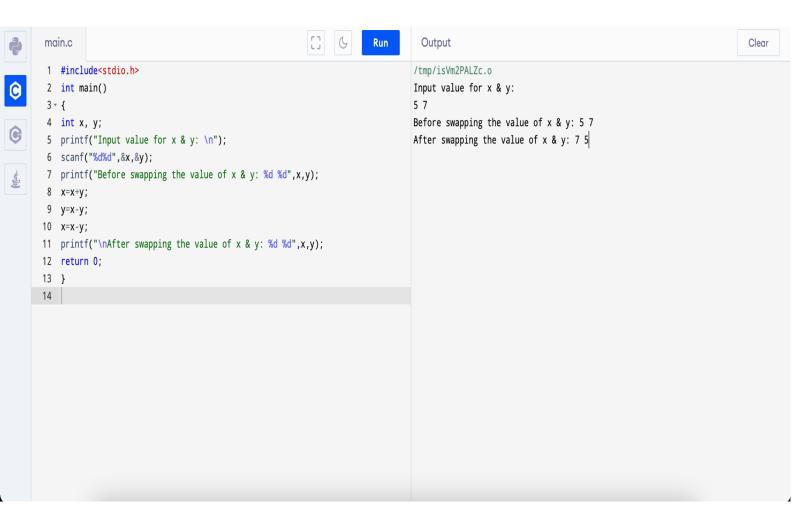
Step 3 - Addition of x and y and store them in x.

Step 4 - Subtraction of x and y and store them in y.

Step 5 - Subtraction of x and y and store them in x.

Step 6 - Display x and y.

Step 7 - Stop.



#### Q] WRITE A PROGRAM IN C TO SWAP TWO NUMBERS USING THIRD VARIABLE

#### ALGORITHM:--

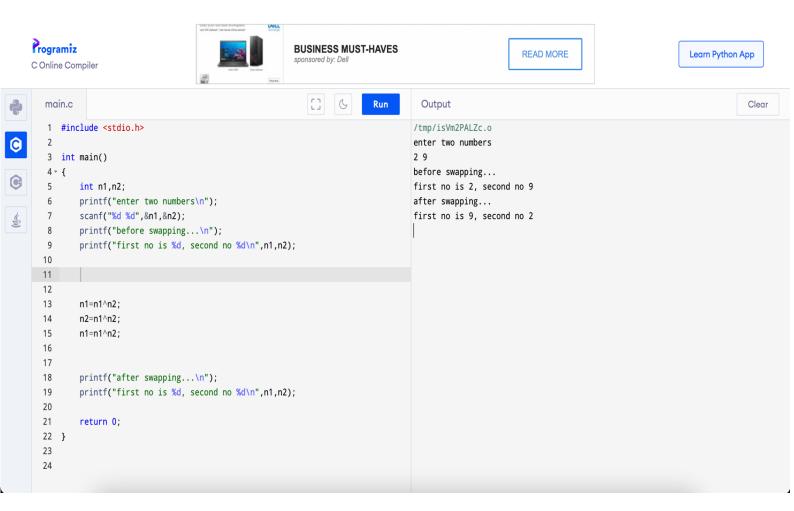
- Step 1 Start.
- Step 2 Read first, second, temp.
- Step 3 Store the value of first in temp.
- Step 4 Store the value of second in first.
- Step 5 Store the value of temp in second.
- Step 6 Display value of first and second.
- Step 7 Stop

```
main.c
                                                                       Run
                                                                                  Output
                                                                                                                                                         Clear
                                                                                 /tmp/ptVtiIrMIP.o
 1 #include<stdio.h>
2 int main() {
                                                                                 Enter first number: 10
         double first, second, temp;
                                                                                 Enter second number: 20
         printf("Enter first number: ");
         scanf("%lf", &first);
                                                                                 After swapping, firstNumber = 20.00
         printf("Enter second number: ");
                                                                                 After swapping, secondNumber = 10.00
7
         scanf("%lf", &second);
8
9
10
         temp = first;
11
12
13
         first = second;
14
15
16
          second = temp;
17
18
          printf("\nAfter swapping, firstNumber = %.21f\n", first);
          printf("After swapping, secondNumber = %.21f", second);
19
20
          return 0;
21 }
```

## Q] WRITE A PROGRAM IN C TO SWAP TO NUMBERS USING BITWISE OPERATOR

#### ALGORITHM:--

- Step 1 Start .
- Step 2 Read n1 , n2.
- Step 3 Binary Addition of n1 and n2 and store them in n1.
- Step 4 Binary Addition of n1 and n2 and store them in n2.
- Step 5 Binary Addition of n1 and n2 and store them in n1.
- Step 6-Display n1 and n2.
- Step 7 Stop.



# THANK YOU