**Assignment -2**

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|  | **Problem statement**  **Write a C program to add ,sub ,div ,mul the numbers given by user in which user input assembly code and give the output.** |

**SOLUTION:**

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| **CODE:**  #include <stdio.h>  #include <string.h>  int main() {  char operation[10];  int num1, num2, result;  // Get the operation and numbers from the user  printf("Enter operation (ADD, SUB, etc.) and two numbers separated by spaces: ");  scanf("%s %d %d", operation, &num1, &num2);  // Perform the operation based on the input  if (strcmp(operation, "ADD") == 0) {  result = num1 + num2;  } else if (strcmp(operation, "SUB") == 0) {  result = num1 - num2;  } else if (strcmp(operation, "MUL") == 0) {  result = num1 \* num2;  } else if (strcmp(operation, "DIV") == 0) {  if (num2 == 0) {  printf("Error: Division by zero.\n");  return 1; // Indicate an error  }  result = num1 / num2;  } else {  printf("Invalid operation.\n");  return 1; // Indicate an error  }  // Print the result  printf("Result: %d\n", result);  return 0;  }  **OUTPUT:** |