

LEADING UNIVERSITY

Assignment-1

Course Code: CSE-1212

Course Title: Structural Programming Sessional

DEPARTMENT OF CSE LU 50th BATCH

FALL - 2023

SUBMITTED TO:

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Lecturer

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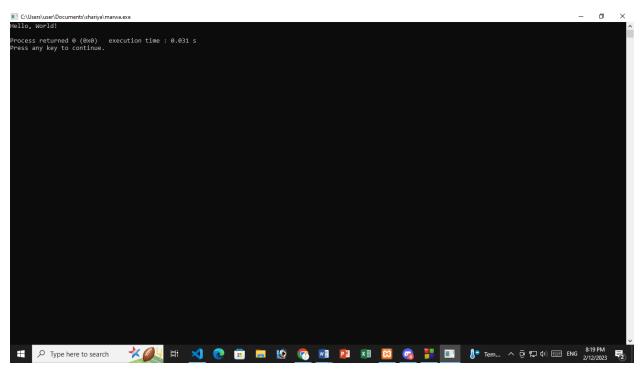
Section: F

Submission Date: 12.02.2023

"Hello, World!" program in C:

Code:

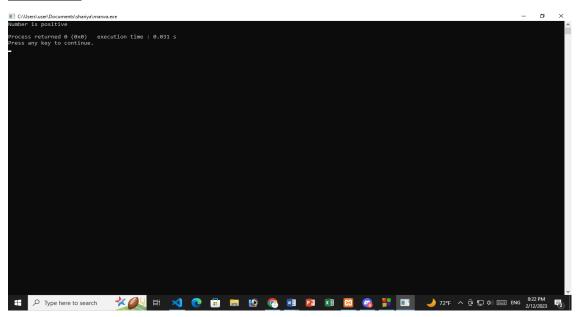
```
#include <stdio.h>
int main() {
  printf("Hello, World!\n");
  return 0;
}
```



if statement in C:

Code:

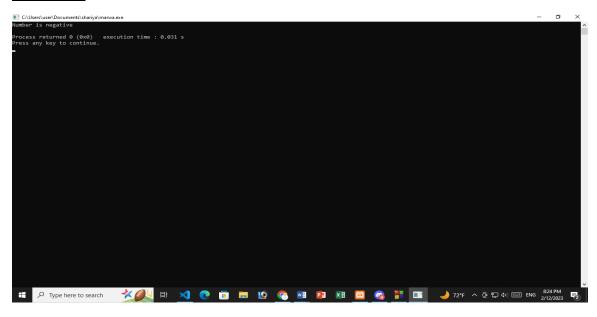
```
#include <stdio.h>
int main() {
  int number = 10;
  if (number > 0) {
    printf("Number is positive\n");
  }
  return 0;
}
```



if-else statement in C:

Code:

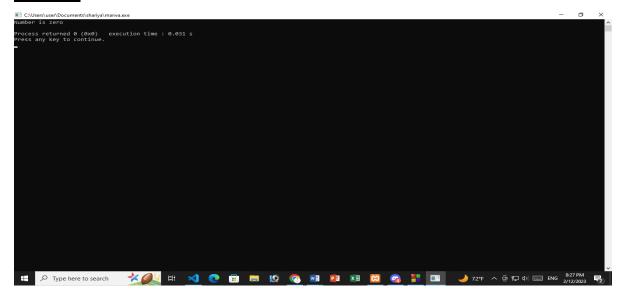
```
#include <stdio.h>
int main() {
  int number = -10;
  if (number > 0) {
    printf("Number is positive\n");
  } else {
    printf("Number is negative\n");
  }
  return 0;
}
```



nested if-else statement in C:

Code:

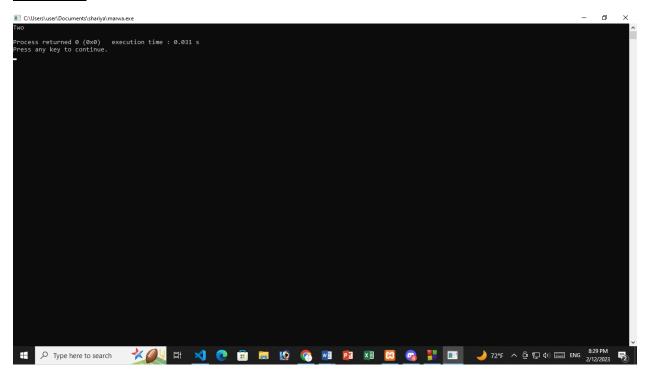
```
#include <stdio.h>
int main() {
  int number = 0;
  if (number > 0) {
    printf("Number is positive\n");
  } else if (number == 0) {
    printf("Number is zero\n");
  } else {
    printf("Number is negative\n");
  }
  return 0;
}
```



switch statement in C:

Code:

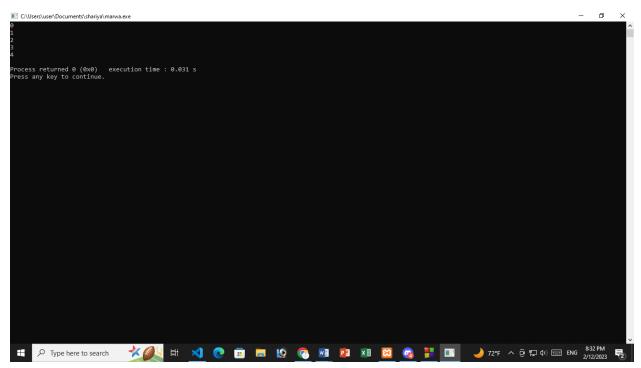
```
#include <stdio.h>
int main() {
 int number = 2;
 switch (number) {
  case 1:
   printf("One\n");
   break;
  case 2:
   printf("Two\n");
   break;
  case 3:
   printf("Three\n");
   break;
  default:
   printf("Other\n");
 return 0;
```



for loop in C:

Code:

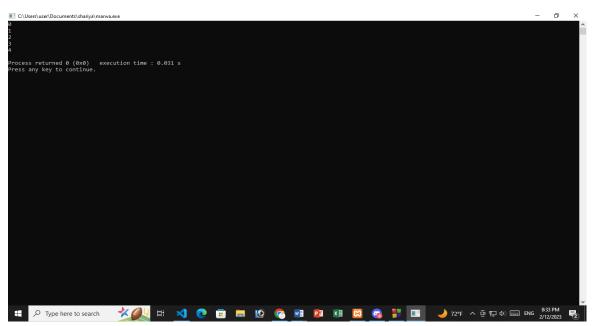
```
#include <stdio.h>
int main(void) {
  for (int i = 0; i < 5; i++) {
    printf("%d\n", i);
  }
  return 0;
}</pre>
```



while loop in C:

Code:

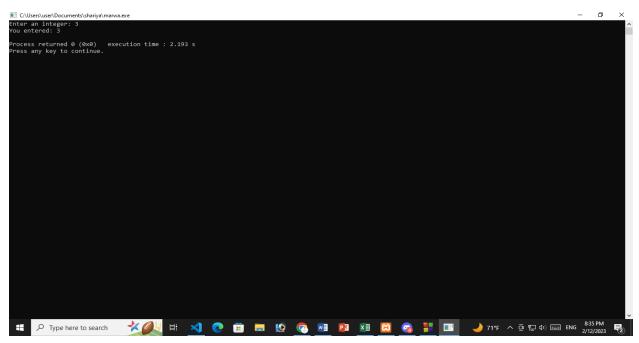
```
#include <stdio.h>
int main(void) {
  int counter = 0;
  while (counter < 5) {
    printf("%d\n", counter);
    counter++;
  }
  return 0;
}</pre>
```



scanf in C to read an integer from the standard input:

Code:

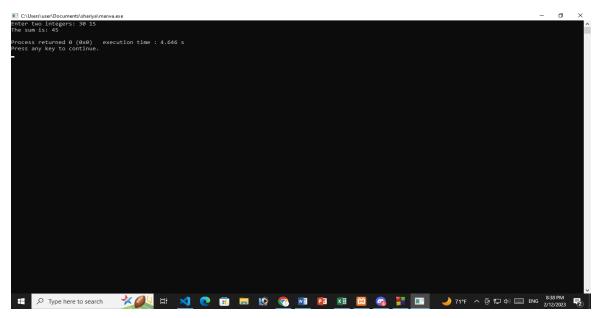
```
#include <stdio.h>
int main(void) {
  int number;
  printf("Enter an integer: ");
  scanf("%d", &number);
  printf("You entered: %d\n", number);
  return 0;
}
```



simple program in C that calculates the sum of two numbers:

Code:

```
#include <stdio.h>
int main(void) {
  int a, b, sum;
  printf("Enter two integers: ");
  scanf("%d%d", &a, &b);
  sum = a + b;
  printf("The sum is: %d\n", sum);
  return 0;
}
```

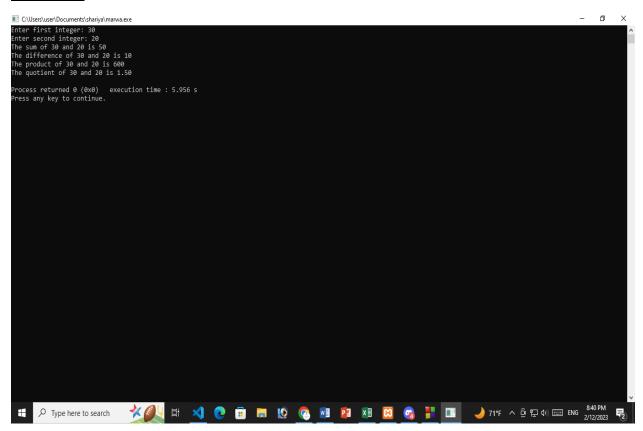


Simple C code that takes two integer inputs from the user and performs four basic arithmetic operations (addition, subtraction, multiplication, and division) on them:

Code:

```
#include <stdio.h>
int main() {
  int num1, num2;
  int sum, difference, product;
  float quotient;
  printf("Enter first integer: ");
  scanf("%d", &num1);
  printf("Enter second integer: ");
  scanf("%d", &num2);
  sum = num1 + num2;
  difference = num1 - num2;
  product = num1 * num2;
  quotient = (float)num1 / num2;
  printf("The sum of %d and %d is %d\n", num1, num2, sum);
  printf("The difference of %d and %d is %d\n", num1, num2, difference);
  printf("The product of %d and %d is %d\n", num1, num2, product);
```

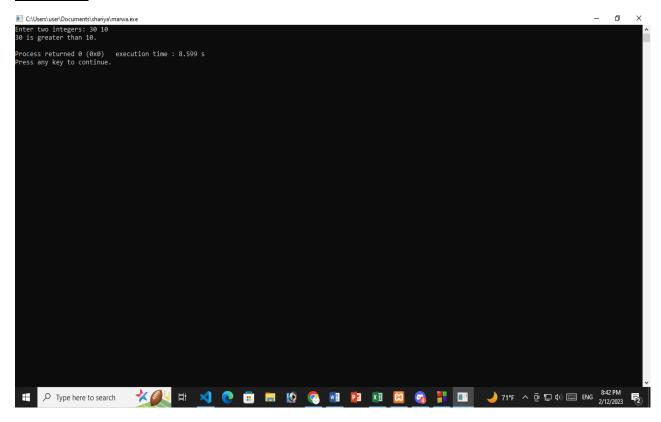
```
printf("The quotient of %d and %d is %.2f\n", num1, num2, quotient); return 0; }
```



simple C code that compares two numbers and prints the greater of the two:

Code:

```
#include <stdio.h>
int main() {
  int num1, num2;
  printf("Enter two integers: ");
  scanf("%d%d", &num1, &num2);
  if (num1 > num2)
     printf("%d is greater than %d.\n", num1, num2);
  else
     printf("%d is greater than %d.\n", num2, num1);
  return 0;
}
```



simple C code that uses a for loop to calculate the sum of the numbers from 1 to 10:

Code:

```
#include <stdio.h>
int main() {
   int i, sum = 0;
   for (i = 1; i <= 10; i++)
      sum += i;
   printf("The sum of the numbers from 1 to 10 is: %d\n", sum);
   return 0;
}</pre>
```

