

# **UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY**

## **PANJAB UNIVERSITY, CHANDIGARH**



### *B.E. Information Technology (2021-25)*

- **Name** : Kunal
- **Roll no.** : UE218058
- **Section** : 2 (group-1)
- **Semester** : 1<sup>st</sup> / 2021-25 batch
- **File** : Programming for problem solving  
Practical File
- **Submitted to – Prof. Monika Meena**

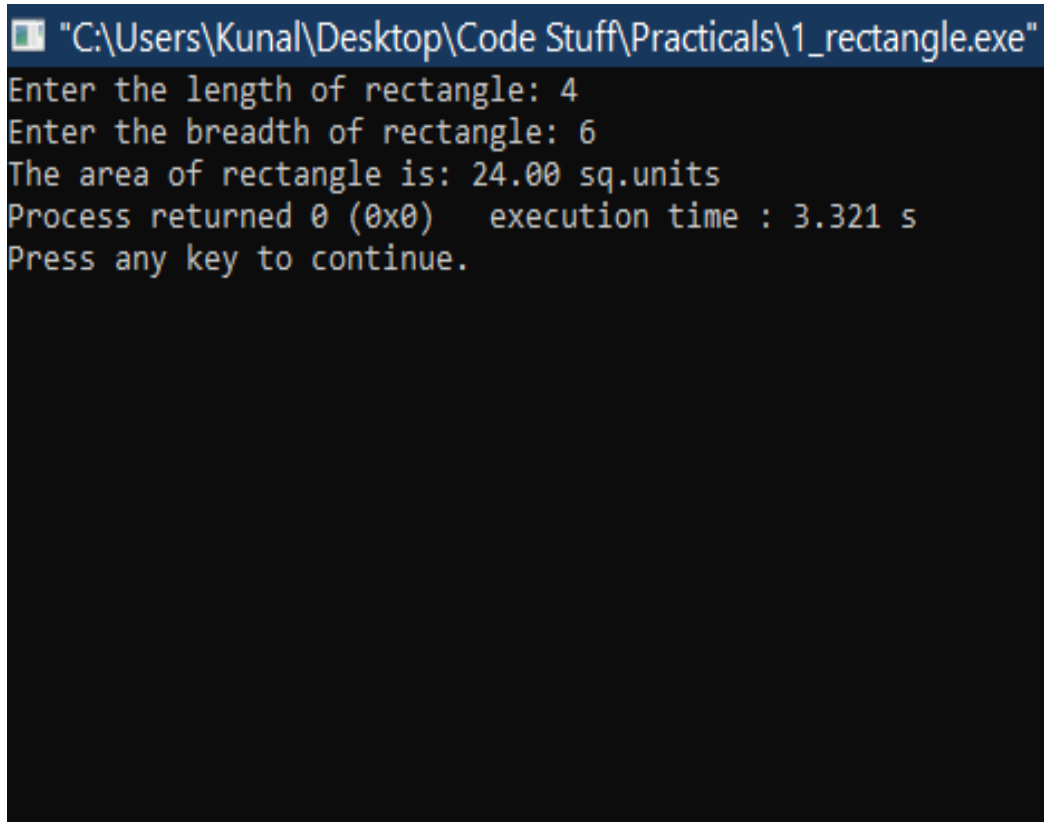
### 1. Program for area of rectangle:

```
#include <stdio.h>
int main( )
{
    float l;  // 'l' is length of rectangle
    float b;  // 'b' is breadth of rectangle

    printf("Enter the length of rectangle: ");
    scanf("%f", &l);

    printf("Enter the breadth of rectangle: ");
    scanf("%f", &b);

    printf("The area of rectangle is: %.2f sq.units", l*b);
    return 0;
}
```



"C:\Users\Kunal\Desktop\Code Stuff\Practicals\1\_rectangle.exe"

```
Enter the length of rectangle: 4
Enter the breadth of rectangle: 6
The area of rectangle is: 24.00 sq.units
Process returned 0 (0x0)   execution time : 3.321 s
Press any key to continue.
```

*2. Program for area of circle & then volume of cylinder w.r.t. its base :*

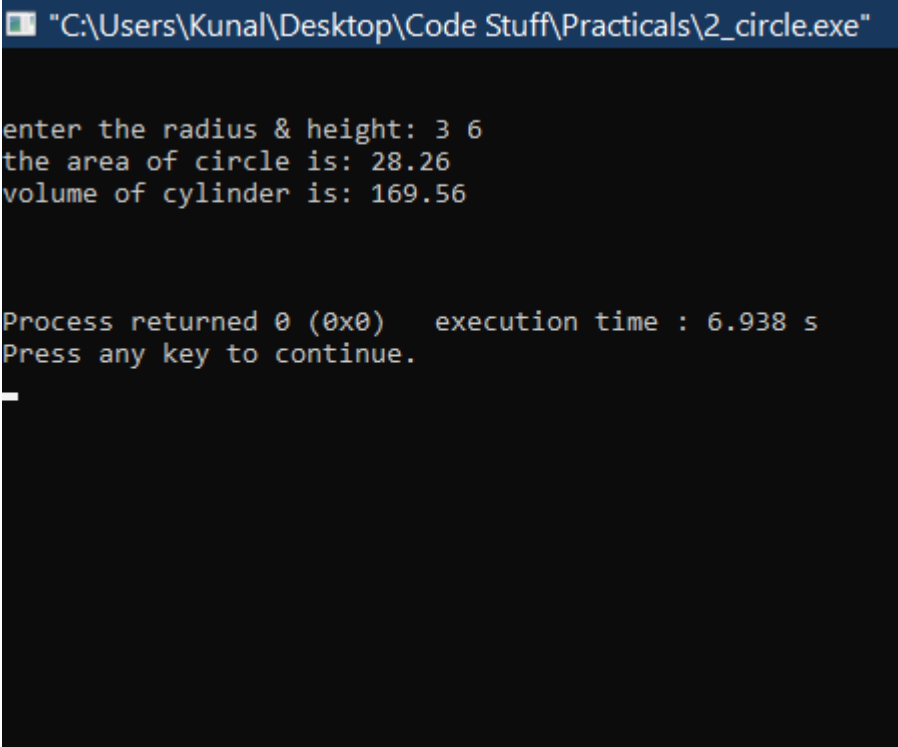
```
#include <stdio.h>
int main( )
{
    float r,area,h;
    float pi=3.14;

    printf("\n\nenter the radius & height: ");
    scanf("%f%f", &r,&h);

    area=pi*r*r;
    printf("the area of circle is: %.2f\n", area);

    printf("volume of cylinder is: %.2f\n\n\n", area*h);

    return 0;
}
```



```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\2_circle.exe"

enter the radius & height: 3 6
the area of circle is: 28.26
volume of cylinder is: 169.56

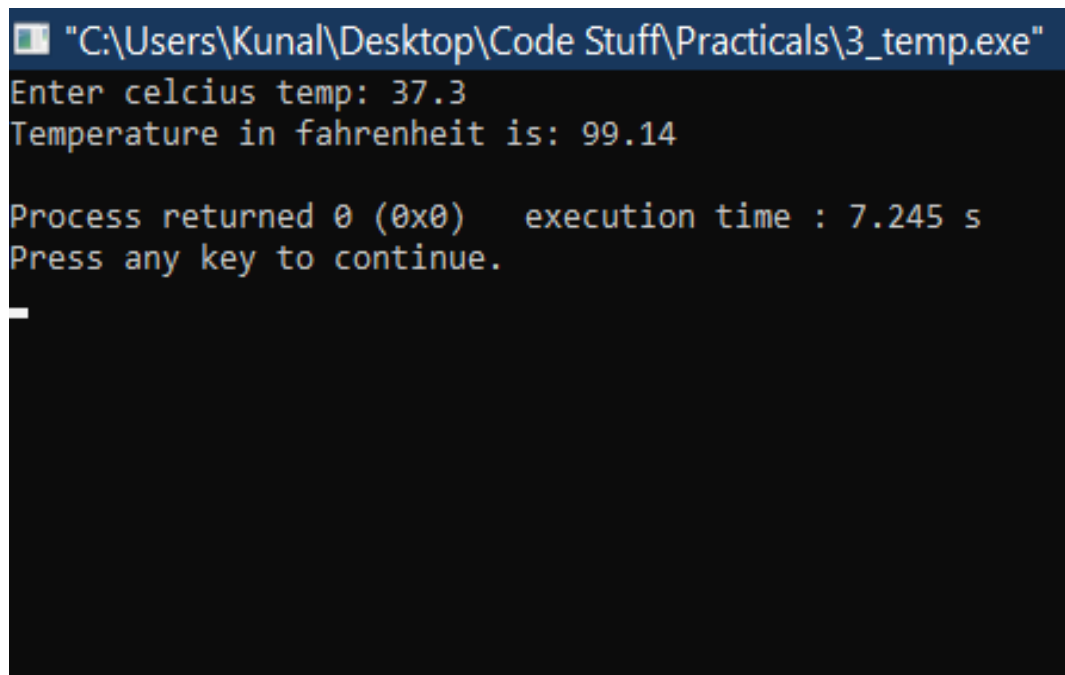
Process returned 0 (0x0)   execution time : 6.938 s
Press any key to continue.
```

### 3. Program for temperature conversion :

```
#include <stdio.h>

int main( )
{
    float celc;  //temp in celcius
    float fahr;  //temp in fahrenheit
    printf("Enter celcius temp: ");
    scanf("%f", &celc);

    fahr= (celc*1.8)+32;
    printf("Temperature in fahrenheit is: %.2f\n", fahr);
    return 0;
}
```



The screenshot shows a Windows command prompt window with the title bar "C:\Users\Kunal\Desktop\Code Stuff\Practicals\3\_temp.exe". The prompt displays the following text:

```
Enter celcius temp: 37.3
Temperature in fahrenheit is: 99.14

Process returned 0 (0x0)   execution time : 7.245 s
Press any key to continue.
```

A white cursor is visible on the line "Press any key to continue.".

#### 4. Program for simple interest :

```
#include <stdio.h>

int main( ){

    int n;        // n is years

    float p,r,si; /* p is principle amount
                   r is rate on interest
                   si is simple interest */

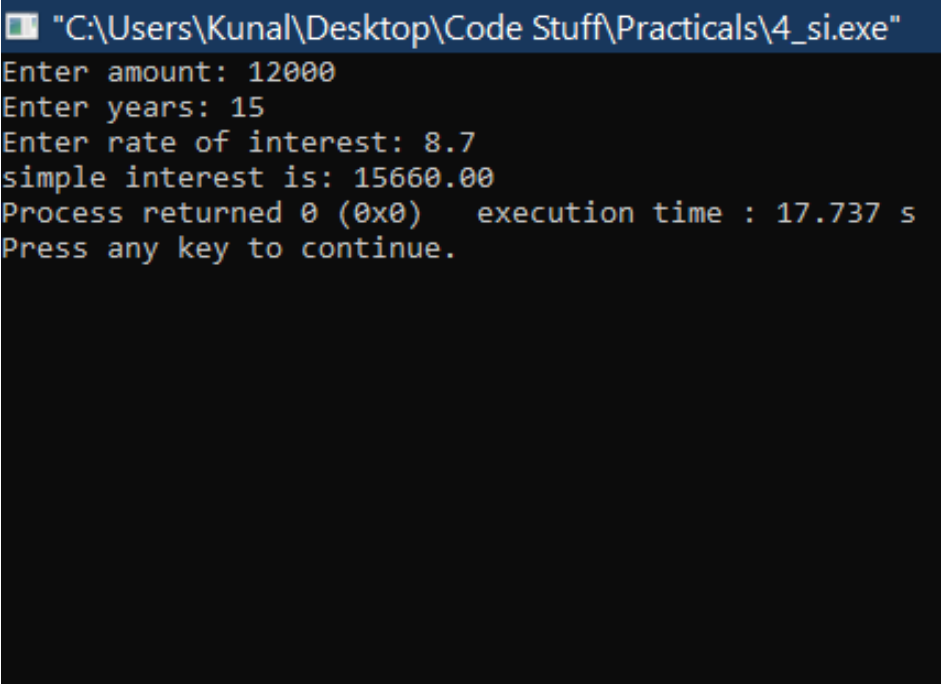
    printf("Enter amount: "); scanf("%f", &p);
    printf("Enter years: "); scanf("%d", &n);
    printf("Enter rate of interest: "); scanf("%f",&r);

    si= p*n*r/100;

    printf("simple interest is: %.2f", si);

    return 0;

}
```



The screenshot shows a Windows command prompt window with a title bar that reads "C:\Users\Kunal\Desktop\Code Stuff\Practicals\4\_si.exe". The window contains the following text: "Enter amount: 12000", "Enter years: 15", "Enter rate of interest: 8.7", "simple interest is: 15660.00", "Process returned 0 (0x0) execution time : 17.737 s", and "Press any key to continue.".

### 5. Program for checking even/odd :

```
#include <stdio.h>

int main( ){

    int i=0;

    printf("enter the no. : ");

    scanf("%d", &i);

    if(i%2 !=0){

        printf("entered no. is odd\n");

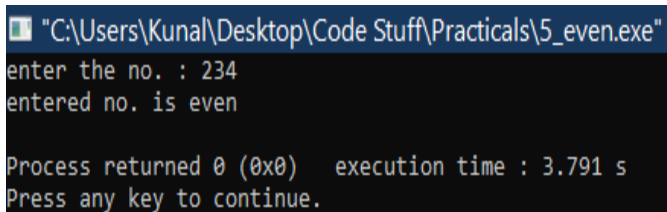
    } else{

        printf("entered no. is even\n");

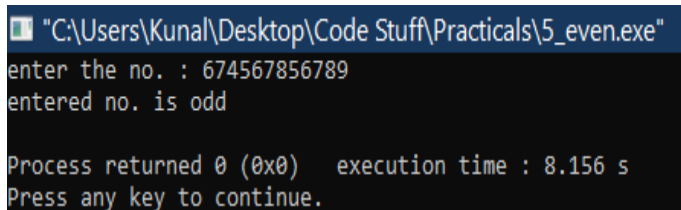
    }

    return 0;

}
```



A screenshot of a Windows command prompt window titled "C:\Users\Kunal\Desktop\Code Stuff\Practicals\5\_even.exe". The prompt shows the user entering "234", followed by the output "entered no. is even". At the bottom, it displays "Process returned 0 (0x0) execution time : 3.791 s" and "Press any key to continue.".



A screenshot of a Windows command prompt window titled "C:\Users\Kunal\Desktop\Code Stuff\Practicals\5\_even.exe". The prompt shows the user entering "674567856789", followed by the output "entered no. is odd". At the bottom, it displays "Process returned 0 (0x0) execution time : 8.156 s" and "Press any key to continue.".

## 6. Program for a leap year :

```
#include <stdio.h>

int main( ){

    int y;

    int i;

    printf("Enter the year: ");

    scanf("%d", &y);


    if(y%4 !=0 || (y/100)%4 !=0){

        printf("Its not a leap year\n");

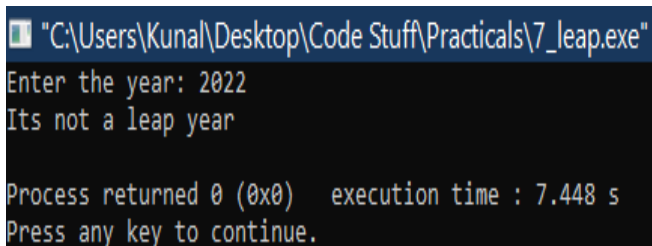
    } else {

        printf("Its a leap year\n");

    }

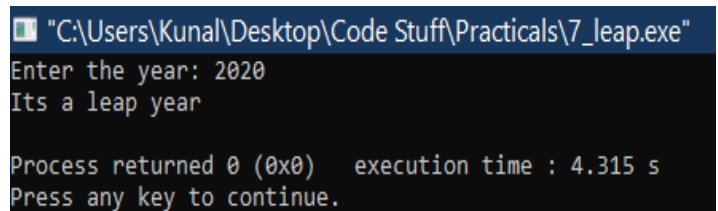
    return 0;

}
```



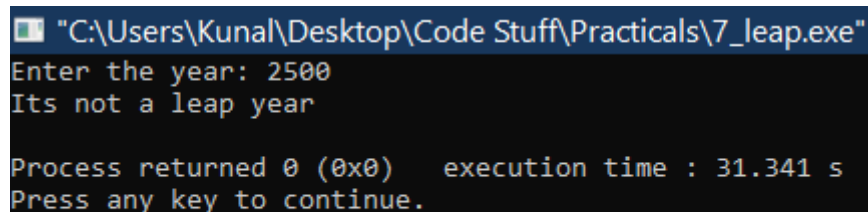
```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\7_leap.exe"
Enter the year: 2022
Its not a leap year

Process returned 0 (0x0)   execution time : 7.448 s
Press any key to continue.
```



```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\7_leap.exe"
Enter the year: 2020
Its a leap year

Process returned 0 (0x0)   execution time : 4.315 s
Press any key to continue.
```



```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\7_leap.exe"
Enter the year: 2500
Its not a leap year

Process returned 0 (0x0)   execution time : 31.341 s
Press any key to continue.
```

## 7. Program for factorial of any no. entered through keyboard :

```
#include <stdio.h>

int main( ){

    int i;

    int k;

    int factorial_i =1;


    printf("Enter the number: ");

    scanf("%d", &i);


    for(k=1;k<=i;k++){

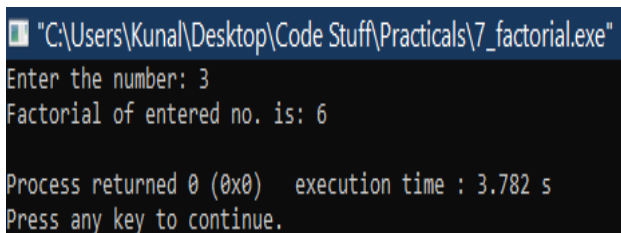
        factorial_i *= k;

    }

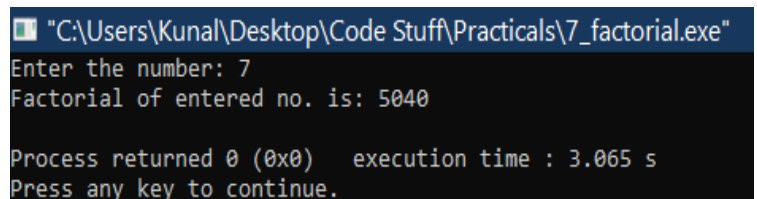
    printf("Factorial of entered no. is: %d\n", factorial_i);

    return 0;

}
```



"C:\Users\Kunal\Desktop\Code Stuff\Practicals\7\_factorial.exe"  
Enter the number: 3  
Factorial of entered no. is: 6  
  
Process returned 0 (0x0) execution time : 3.782 s  
Press any key to continue.



"C:\Users\Kunal\Desktop\Code Stuff\Practicals\7\_factorial.exe"  
Enter the number: 7  
Factorial of entered no. is: 5040  
  
Process returned 0 (0x0) execution time : 3.065 s  
Press any key to continue.



### 8. Program for calculating table of a no. entered through keyboard :

```
#include <stdio.h>

int main( ){

    int i;

    printf("Enter the no. ");

    scanf("%d", &i);

    printf("The table for %d is:\n ", i);

    for(int k=1; k<=10; k++){

        int t;

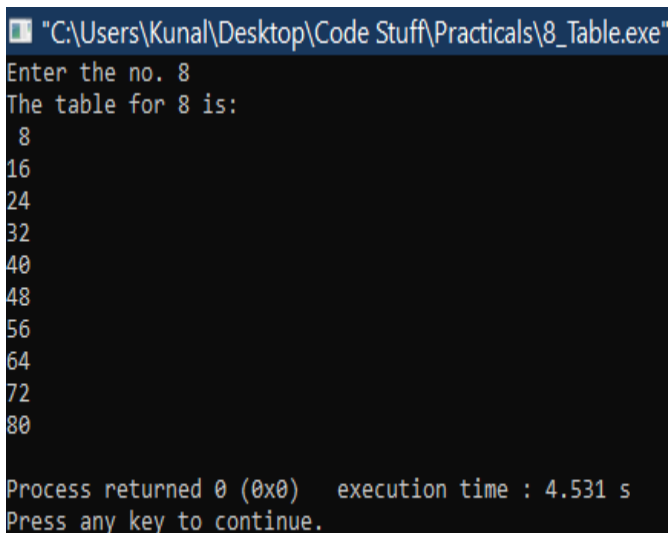
        t= k*i;

        printf("%d\n", t);

    }

    return 0;

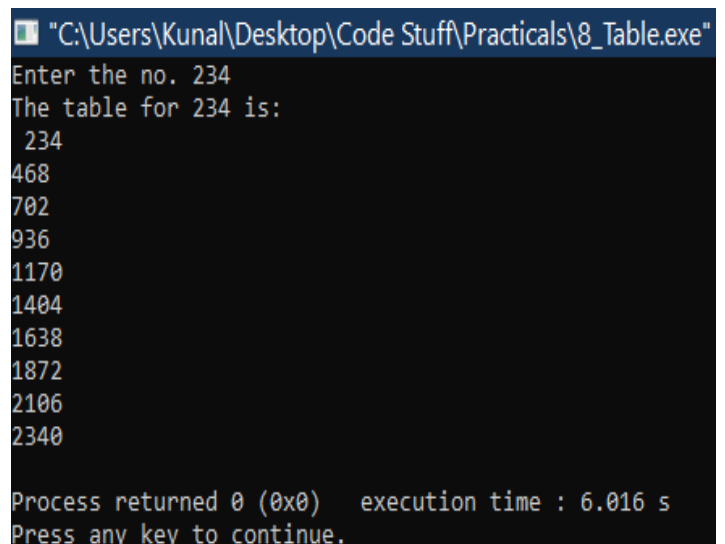
}
```



A screenshot of a Windows command prompt window titled "C:\Users\Kunal\Desktop\Code Stuff\Practicals\8\_Table.exe". The prompt shows the program running with input 8. It displays the multiplication table for 8, from 8\*1 to 8\*10. At the bottom, it shows "Process returned 0 (0x0) execution time : 4.531 s" and "Press any key to continue.".

```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\8_Table.exe"
Enter the no. 8
The table for 8 is:
8
16
24
32
40
48
56
64
72
80

Process returned 0 (0x0)   execution time : 4.531 s
Press any key to continue.
```



A screenshot of a Windows command prompt window titled "C:\Users\Kunal\Desktop\Code Stuff\Practicals\8\_Table.exe". The prompt shows the program running with input 234. It displays the multiplication table for 234, from 234\*1 to 234\*10. At the bottom, it shows "Process returned 0 (0x0) execution time : 6.016 s" and "Press any key to continue.".

```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\8_Table.exe"
Enter the no. 234
The table for 234 is:
234
468
702
936
1170
1404
1638
1872
2106
2340

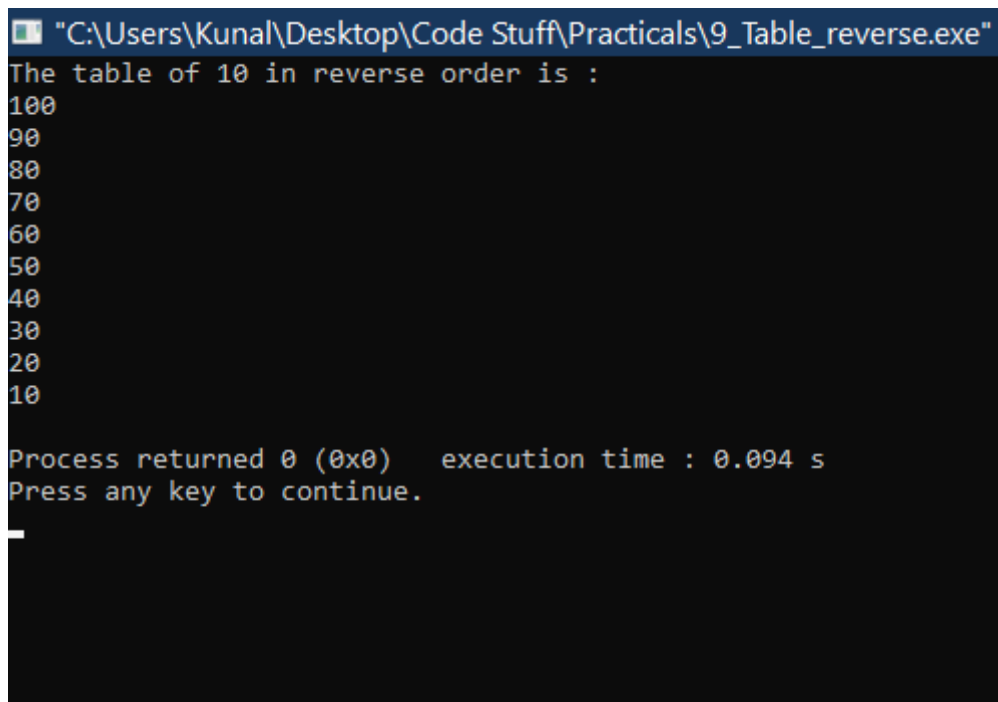
Process returned 0 (0x0)   execution time : 6.016 s
Press any key to continue.
```

### 9. Program for table of 10 in reverse order :

```
#include <stdio.h>

int main(){
    printf("The table of 10 in reverse order is :\n");

    for(int i=10; i>=1; i--){
        int t;
        t= i*10;
        printf("%d\n", t);
    }
    return 0;
}
```

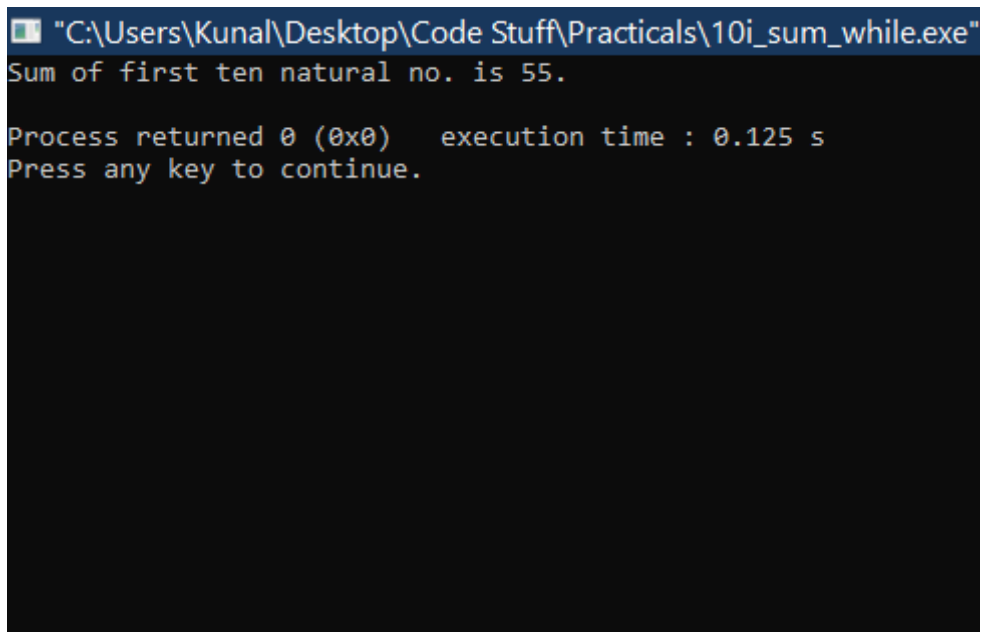


```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\9_Table_reverse.exe"
The table of 10 in reverse order is :
100
90
80
70
60
50
40
30
20
10

Process returned 0 (0x0)   execution time : 0.094 s
Press any key to continue.
```

10. (i) Program to sum first ten natural numbers (using while loop)

```
#include <stdio.h>
int main(){
    int i=1;
    int sum=0;
    while (i<=10)
    {
        sum +=i;
        i++;
    }
    printf("Sum of first ten natural no. is %d.\n", sum);
    return 0;
}
```



```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\10i_sum_while.exe"
Sum of first ten natural no. is 55.

Process returned 0 (0x0)   execution time : 0.125 s
Press any key to continue.
```

**10 .(ii) Program to sum first ten natural numbers (using for loop) :**

```
#include <stdio.h>
int main(){
    int sum=0;
    for (int i= 1; i < 11; i++)
    {
        sum +=i;
    }
    printf("%d\n", sum);

    return 0;
}
```

A screenshot of a Windows command prompt window. The title bar is blue and contains the text "C:\Users\Kunal\Desktop\Code Stuff\Practicals\10ii\_sum\_for.exe". The main area of the window is black with white text. The first line of output is "55". The second line is "Process returned 0 (0x0) execution time : 0.078 s". The third line is "Press any key to continue.".

10. (iii) Program to sum first ten natural numbers (using do- while loop):

```
#include <stdio.h>
int main(){
    int i=1;
    int sum=0;

    do
    {
        sum+=i;
        i++;
    } while (i>=1 && i<11 );

    printf("%d\n", sum);
    return 0;
}
```

"C:\Users\Kunal\Desktop\Code Stuff\Practicals\10iii\_sum\_do\_while.exe"

55

Process returned 0 (0x0) execution time : 0.094 s  
Press any key to continue.

**11 . (i) Program for factorial of a number (using 'for' loop) :**

```
#include <stdio.h>

int main(){

    int x;    // number

    int f=1;  // factorial


    printf("enter the no. : ");

    scanf("%d", &x);


    for(int i=1; i<=x; i++){

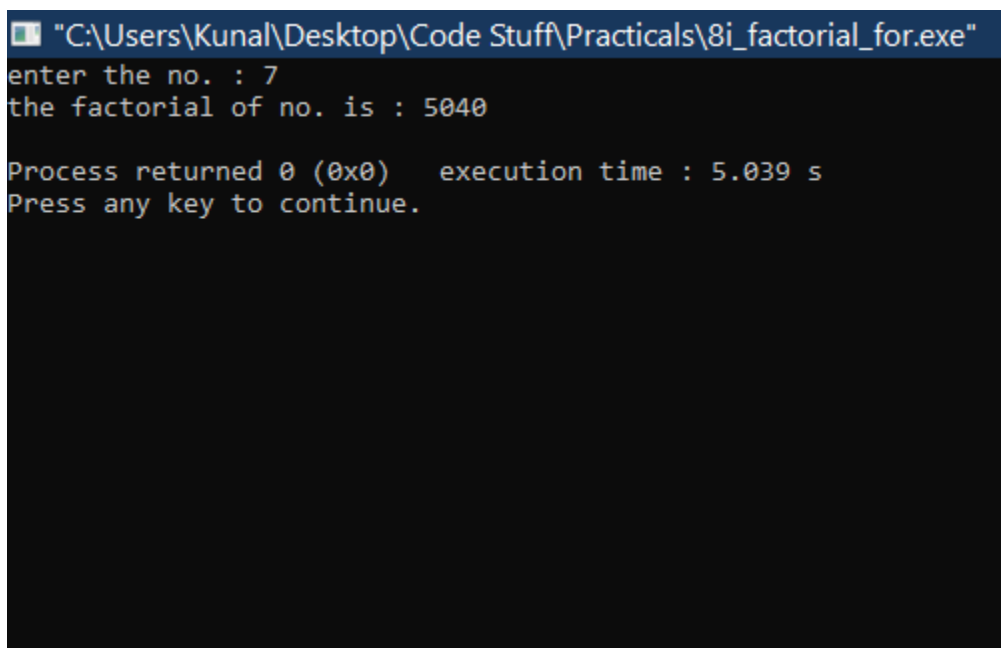
        f*= i;

    }

    printf("the factorial of no. is : %d\n", f);

    return 0;

}
```



The screenshot shows a Windows command prompt window with the title bar "C:\Users\Kunal\Desktop\Code Stuff\Practicals\8i\_factorial\_for.exe". The prompt displays the following text: "enter the no. : 7", "the factorial of no. is : 5040", "Process returned 0 (0x0) execution time : 5.039 s", and "Press any key to continue.".

**11 . (ii) Program for factorial of a number (using 'while' loop) :**

```
#include <stdio.h>
```

```
int main(){
```

```
    int i=1;
```

```
    int fact=1;
```

```
    printf("Enter the no. : ");
```

```
    scanf("%d",&i);
```

```
    while (i>=1){
```

```
        fact *= i;
```

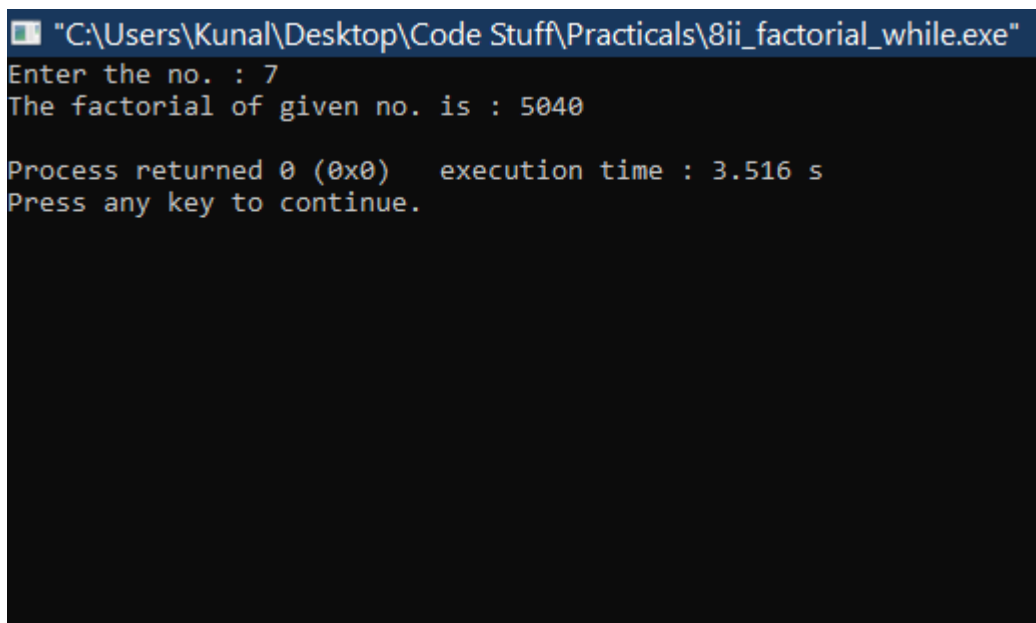
```
        i--;
```

```
    }
```

```
    printf("The factorial of given no. is : %d\n", fact);
```

```
    return 0;
```

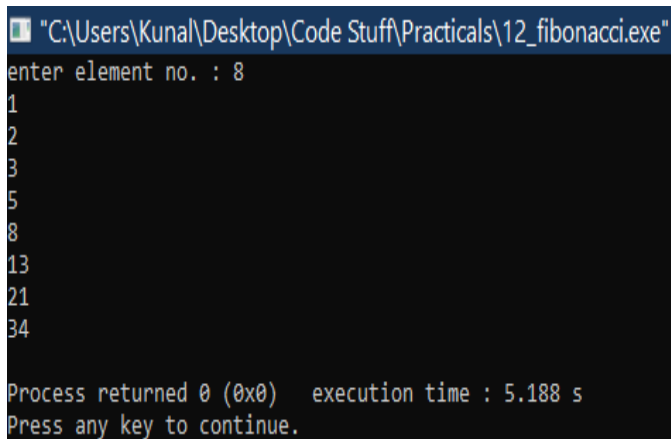
```
}
```



```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\8ii_factorial_while.exe"  
Enter the no. : 7  
The factorial of given no. is : 5040  
  
Process returned 0 (0x0)   execution time : 3.516 s  
Press any key to continue.
```

## 12 . Program to calculate nth element of Fibonacci sequence :

```
#include <stdio.h>
int fibo(int i);
int main() {
    int i;
    int x;
    printf("enter element no. : ");
    scanf("%d",&x);
    for (i = 1; i <= x; i++) {
        printf("%d\t\n", fibo(i));
    }
    return 0;
}
int fibo(int i){
    if(i==0) {
        return 1;
    }
    if(i==1){
        return 1;
    }
    return fibo(i-1) + fibo(i-2);
}
```

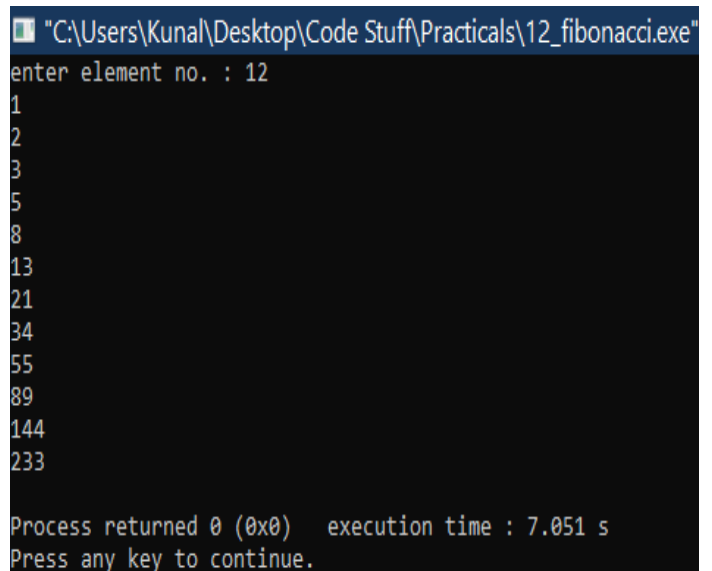


"C:\Users\Kunal\Desktop\Code Stuff\Practicals\12\_fibonacci.exe"

enter element no. : 8

1  
2  
3  
5  
8  
13  
21  
34

Process returned 0 (0x0) execution time : 5.188 s  
Press any key to continue.



"C:\Users\Kunal\Desktop\Code Stuff\Practicals\12\_fibonacci.exe"

enter element no. : 12

1  
2  
3  
5  
8  
13  
21  
34  
55  
89  
144  
233

Process returned 0 (0x0) execution time : 7.051 s  
Press any key to continue.



### 13. Program for calculating sum of first n natural no. :

```
#include <stdio.h>

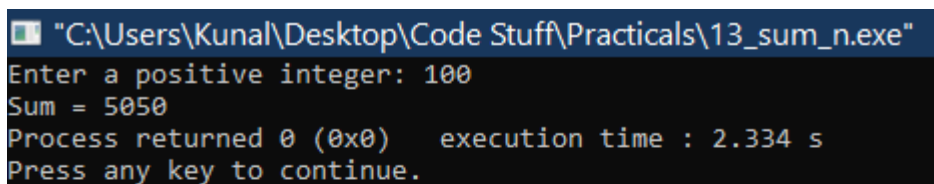
int addNumbers(int n);

int main() {

    int num;
    printf("Enter a positive integer: ");
    scanf("%d", &num);

    printf("Sum = %d", addNumbers(num));
    return 0;
}

int addNumbers(int n) {
    if (n != 0)
        return n + addNumbers(n - 1);
    else
        return n;
}
```



```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\13_sum_n.exe"
Enter a positive integer: 100
Sum = 5050
Process returned 0 (0x0)   execution time : 2.334 s
Press any key to continue.
```

#### 14 . Program for printing star pattern :

```
#include <stdio.h>
int rows;
int star(rows);
int main() {

    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    star(rows);
    return 0;
}

int star(rows){
    int i, j;
    for (i = 1; i <= rows; ++i) {
        for (j = 1; j <= i; ++j) {
            printf("* ");
        }
        printf("\n");
    }
    return 0;
}
```

```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\14_star_pattern.exe"
Enter the number of rows: 7
*
* *
* * *
* * * *
* * * * *
* * * * *
* * * * *

Process returned 0 (0x0)   execution time : 2.359 s
Press any key to continue.
```

*15.(a). Program for inserting sub-string:*

```
#include<stdio.h>
```

```
#include<string.h>
```

```
int main() {
```

```
    char n[] = "New";
```

```
    char y[] = " York";
```

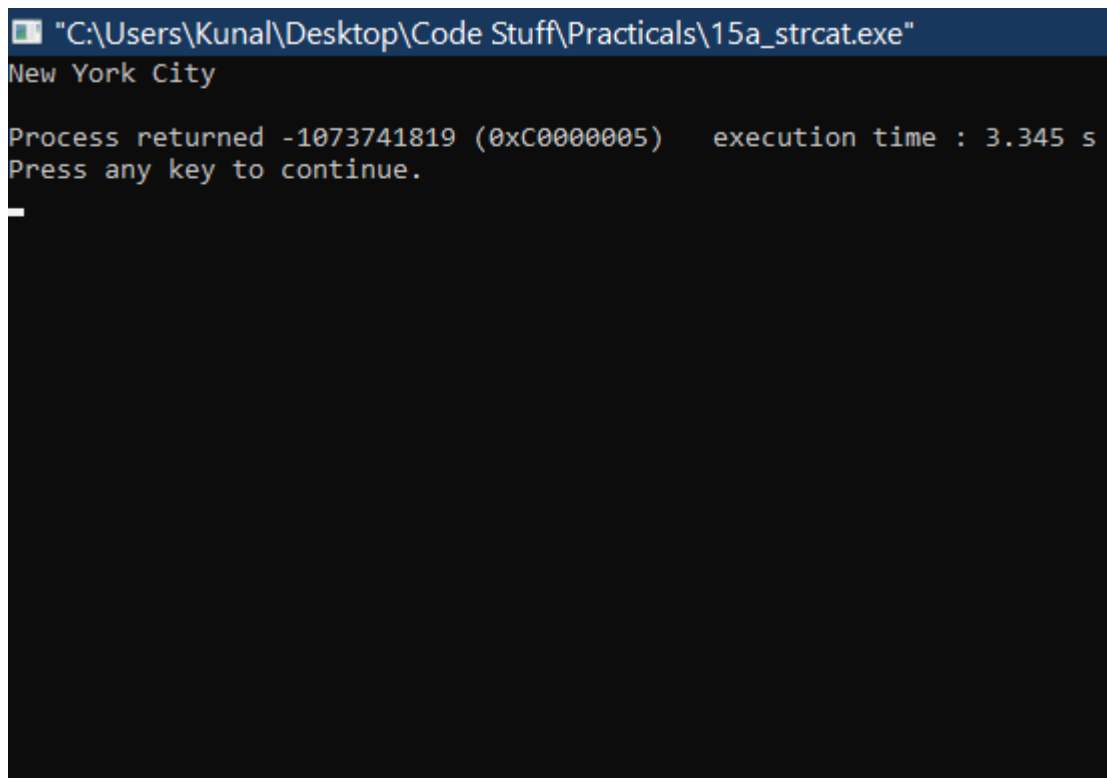
```
    char c[] = " City";
```

```
    strcat(n, y);
```

```
    strcat(n, c);
```

```
    printf("%s\n", n);
```

```
}
```



```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\15a_strcat.exe"
New York City

Process returned -1073741819 (0xC0000005)   execution time : 3.345 s
Press any key to continue.
_
```

*15.(b). (i) Program for swapping values ( call by value ) :*

```
#include <stdio.h>

void swapv ( int x, int y ) ;

int main( )
{
    int a = 43, b = 34 ;

    swapv ( a, b ) ;

    printf ( "a = %d b = %d\n", a, b ) ;

    return 0 ;
}

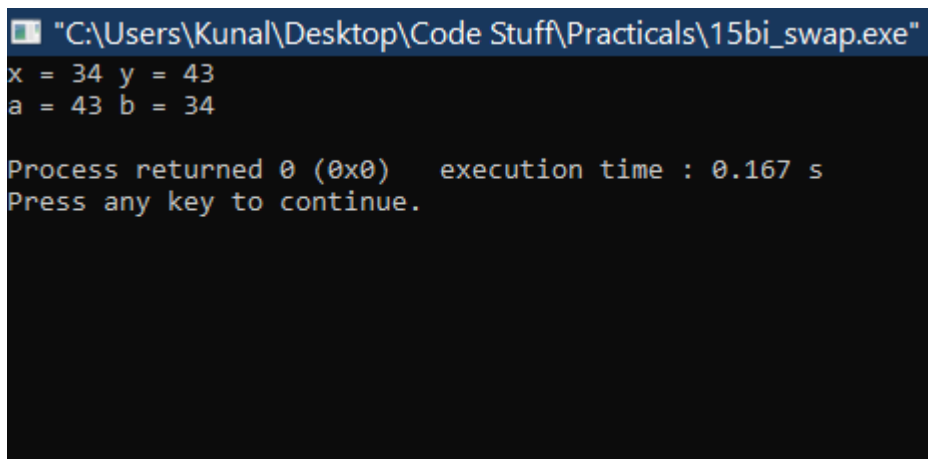
void swapv ( int x, int y )
{
    int t ;

    t = x ;

    x = y ;

    y = t ;

    printf ( "x = %d y = %d\n", x, y ) ;
}
```



The screenshot shows a Windows command prompt window with the title bar "C:\Users\Kunal\Desktop\Code Stuff\Practicals\15bi\_swap.exe". The output of the program is displayed in the console: "x = 34 y = 43" and "a = 43 b = 34". Below the output, it says "Process returned 0 (0x0) execution time : 0.167 s" and "Press any key to continue.".

*15.(b). (ii) Program for swapping values ( call by reference ) :*

```
# include <stdio.h>
```

```
void swapr ( int *, int * ) ;
```

```
int main( )
```

```
{
```

```
int a = 53, b = 35 ;
```

```
swapr ( &a, &b ) ;
```

```
printf ( "a = %d b = %d\n", a, b ) ;
```

```
return 0 ;
```

```
}
```

```
void swapr ( int *x, int *y )
```

```
{
```

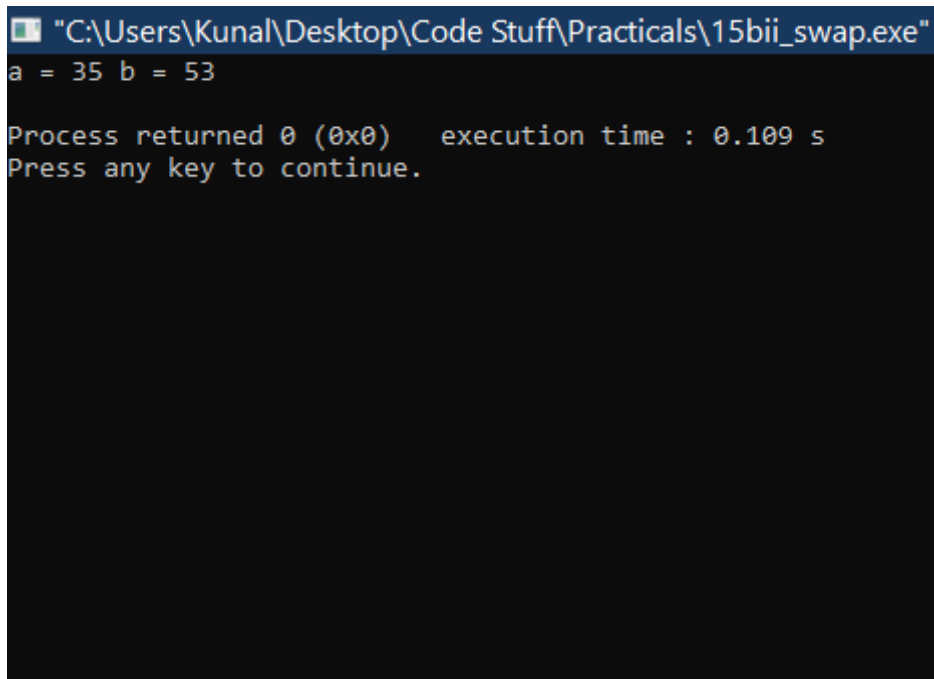
```
int t ;
```

```
t = *x ;
```

```
*x = *y ;
```

```
*y = t ;
```

```
}
```



The screenshot shows a Windows command prompt window with the title bar "C:\Users\Kunal\Desktop\Code Stuff\Practicals\15bii\_swap.exe". The output of the program is displayed in the console: "a = 35 b = 53". Below the output, the message "Process returned 0 (0x0) execution time : 0.109 s" is shown, followed by "Press any key to continue." The console background is black, and the text is white.

*16.(a). Program for finding GCD of two numbers ( using recursion ) :*

```
#include <stdio.h>
```

```
int hcf(int n1, int n2);
```

```
int main() {
```

```
    int n1, n2;
```

```
    printf("Enter two positive integers: ");
```

```
    scanf("%d %d", &n1, &n2);
```

```
    printf("G.C.D of %d and %d is %d.\n ", n1, n2, hcf(n1, n2));
```

```
    return 0;
```

```
}
```

```
int hcf(int n1, int n2) {
```

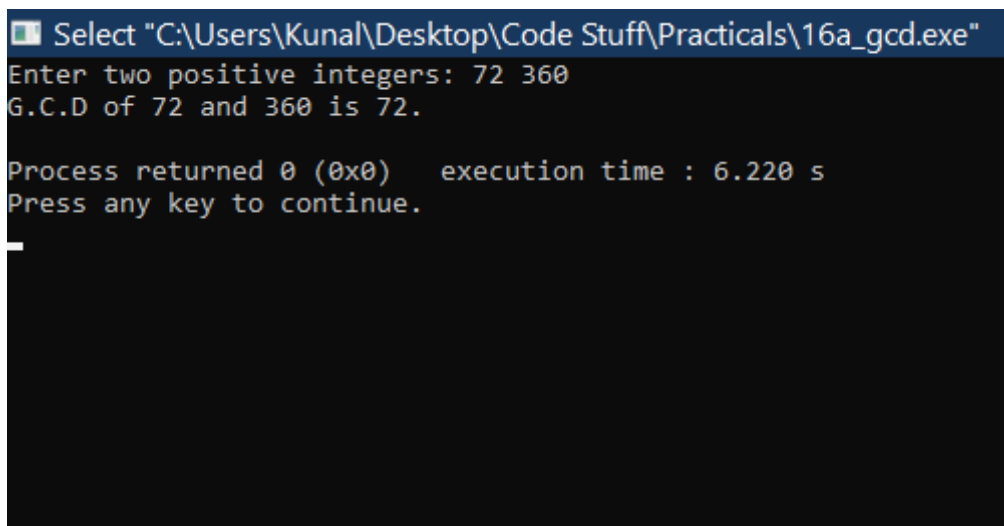
```
    if (n2 != 0)
```

```
        return hcf(n2, n1 % n2);
```

```
    else
```

```
        return n1;
```

```
}
```



The screenshot shows a Windows command prompt window with a title bar that reads "Select 'C:\Users\Kunal\Desktop\Code Stuff\Practicals\16a\_gcd.exe'". The window contains the following text:

```
Enter two positive integers: 72 360
G.C.D of 72 and 360 is 72.

Process returned 0 (0x0)   execution time : 6.220 s
Press any key to continue.
```

A cursor is visible at the bottom of the window, indicating the program has finished execution and is waiting for a key press to continue.

*16.(b). Program for finding GCD of two numbers ( using non- recursion ) :*

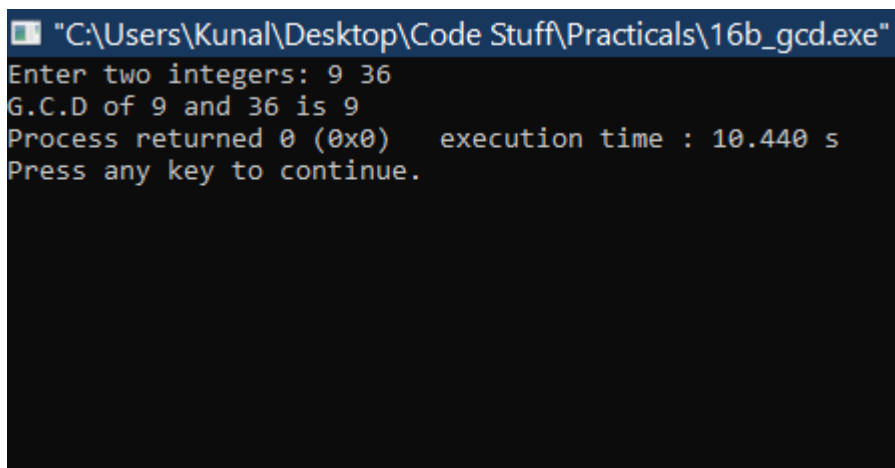
```
#include <stdio.h>

int main()
{
    int n1, n2, i, gcd;

    printf("Enter two integers: ");
    scanf("%d %d", &n1, &n2);

    for(i=1; i <= n1 && i <= n2; ++i)
    {
        // Checks if i is factor of both integers
        if(n1%i==0 && n2%i==0)
            gcd = i;
    }

    printf("G.C.D of %d and %d is %d", n1, n2, gcd);
    return 0;
}
```



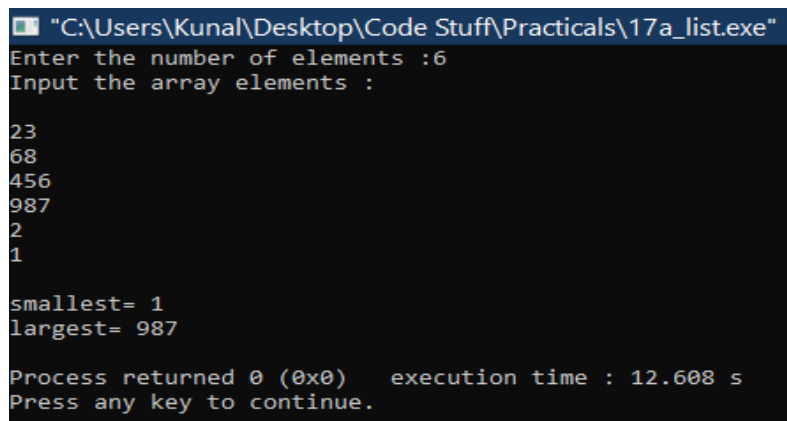
The screenshot shows a Windows command prompt window with the title bar "C:\Users\Kunal\Desktop\Code Stuff\Practicals\16b\_gcd.exe". The prompt displays the following text: "Enter two integers: 9 36", "G.C.D of 9 and 36 is 9", "Process returned 0 (0x0) execution time : 10.440 s", and "Press any key to continue.".

17. (a) Program for finding largest & smallest number in a list :

```
#include<stdio.h>

int main(){
    int a[50],i,num,large,small;

    printf("Enter the number of elements :");
    scanf("%d",&num);
    printf("Input the array elements :\n\n");
    for(i=0;i<num;++i)
        scanf("%d",&a[i]);
    large=small=a[0];
    for(i=1;i<num;++i){
        if(a[i]>large)
            large=a[i];
        if(a[i]<small)
            small=a[i];
    }
    printf("\nsmallest= %d\n",small);
    printf("largest= %d\n",large);
    return 0; }
```



```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\17a_list.exe"
Enter the number of elements :6
Input the array elements :
23
68
456
987
2
1

smallest= 1
largest= 987

Process returned 0 (0x0)   execution time : 12.608 s
Press any key to continue.
```



*17.(b). Program for sorting array in ascending order :*

```
#include <stdio.h>
```

```
void main ( ){
```

```
    int num[20];
```

```
    int i, j, a, n;
```

```
    printf("enter number of elements in an array\n");
```

```
    scanf("%d", &n);
```

```
    printf("Enter the elements\n");
```

```
    for (i = 0; i < n; ++i)
```

```
        scanf("%d", &num[i]);
```

```
    for (i = 0; i < n; ++i){
```

```
        for (j = i + 1; j < n; ++j){
```

```
            if (num[i] > num[j]){
```

```
                a = num[i];
```

```
                num[i] = num[j];
```

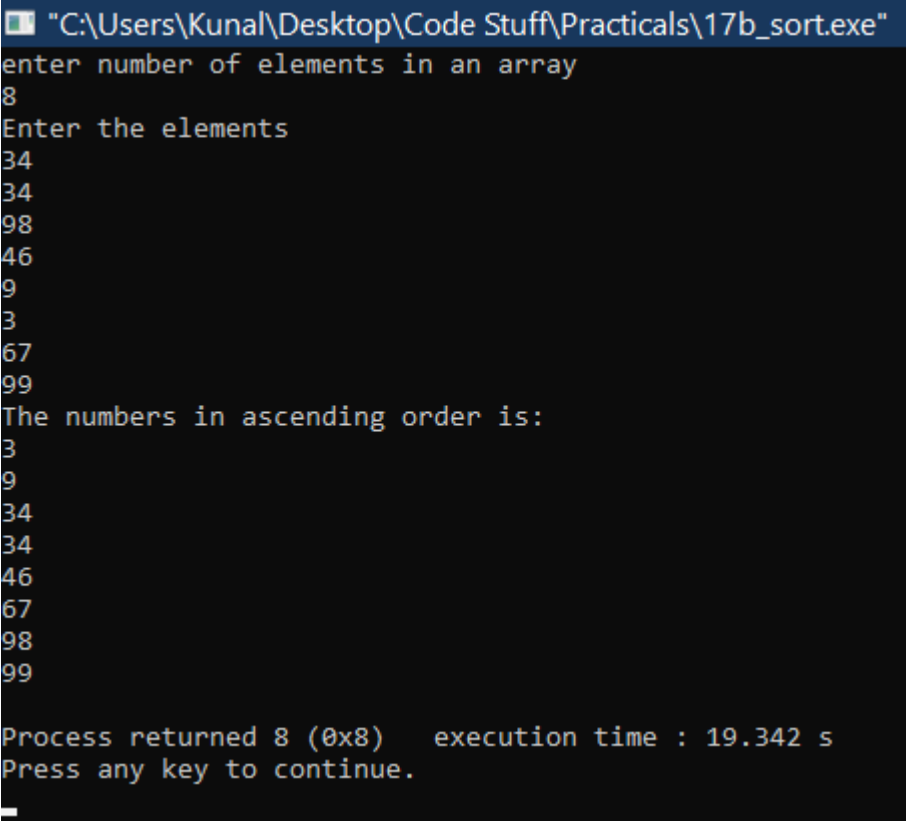
```
                num[j] = a;
```

```
            }
```

```
        }
```

```
    }
```

```
printf("The numbers in ascending order is:\n");  
for (i = 0; i < n; ++i){  
    printf("%d\n", num[i]);  
}  
}
```



The screenshot shows a Windows command prompt window with the title bar "C:\Users\Kunal\Desktop\Code Stuff\Practicals\17b\_sort.exe". The program prompts the user to "enter number of elements in an array", where the input "8" is shown. It then prompts "Enter the elements", followed by eight inputs: "34", "34", "98", "46", "9", "3", "67", and "99". The program then outputs "The numbers in ascending order is:" followed by the sorted list: "3", "9", "34", "34", "46", "67", "98", and "99". At the bottom, it displays "Process returned 8 (0x8) execution time : 19.342 s" and "Press any key to continue.".

```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\17b_sort.exe"  
enter number of elements in an array  
8  
Enter the elements  
34  
34  
98  
46  
9  
3  
67  
99  
The numbers in ascending order is:  
3  
9  
34  
34  
46  
67  
98  
99  
Process returned 8 (0x8) execution time : 19.342 s  
Press any key to continue.
```

*17.(c) Program for checking if a matrix is symmetric or not :*

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
int i, j, rows, columns, a[10][10], b[10][10], Count = 1;
```

```
printf("\n Please Enter Number of rows and columns : ");
```

```
scanf("%d %d", &i, &j);
```

```
printf("\n Please Enter the Matrix Elements \n");
```

```
for(rows = 0; rows < i; rows++){
```

```
    for(columns = 0; columns < j; columns++){
```

```
        scanf("%d", &a[rows][columns]);
```

```
    }
```

```
}
```

```
//Transpose of matrix
```

```
for(rows = 0; rows < i; rows++){
```

```
    for(columns = 0; columns < j; columns++){
```

```
        b[columns][rows] = a[rows][columns];
```

```
    }
```

```
}
```

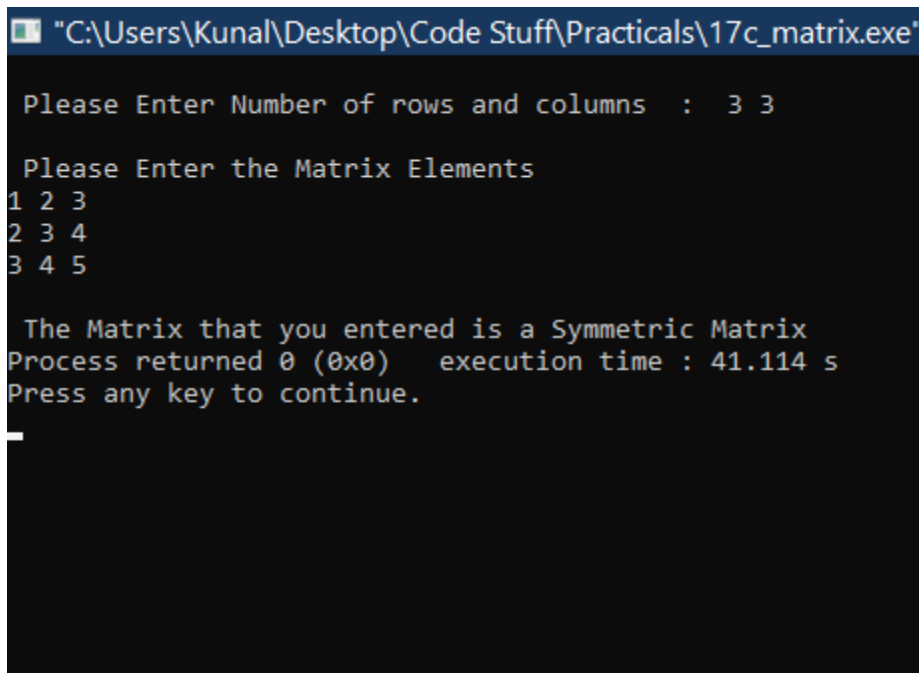
```
for(rows = 0; rows < i; rows++){
```

```
    for(columns = 0; columns < j; columns++){
```

```
        if(a[rows][columns] != b[rows][columns]){
```

```
            Count++;
```

```
break;
    }
}
}
if(Count == 1) {
    printf("\n The Matrix that you entered is a Symmetric Matrix ");
}else
{
    printf("\n The Matrix that you entered is Not a Symmetric Matrix ");
}
return 0;
}
```



```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\17c_matrix.exe"

Please Enter Number of rows and columns : 3 3

Please Enter the Matrix Elements
1 2 3
2 3 4
3 4 5

The Matrix that you entered is a Symmetric Matrix
Process returned 0 (0x0)   execution time : 41.114 s
Press any key to continue.
```

*18. Program to count the number of lines, words and characters in a given text :*

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    // declare variables
```

```
    char str[200];
```

```
    int line, word, ch;
```

```
    // initialize count variables with zero
```

```
    line = word = ch = 0;
```

```
    // read multiline string
```

```
    printf("Enter string terminated with ~ :\n\n");
```

```
    scanf("%[^~]", str);
```

```
    // check every character
```

```
    for(int i=0; str[i]!='\0'; i++)
```

```
    {
```

```
        // if it is new line then
```

```
        // one line and one word completed
```

```
        if(str[i]=='\n')
```

```
        {
```

```
            line++;
```

```
    word++;  
}  
  
// else it is a character  
else  
{  
    // if character is space or tab  
    // then one word is also completed  
    if(str[i]==' ' || str[i]=='\t')  
    {  
        word++;  
        ch++;  
    }  
  
    // it was not '\n', space or tab  
    // it is a normal character  
  
    else {  
        ch++;  
    }  
}  
}
```

```
// display count values
```

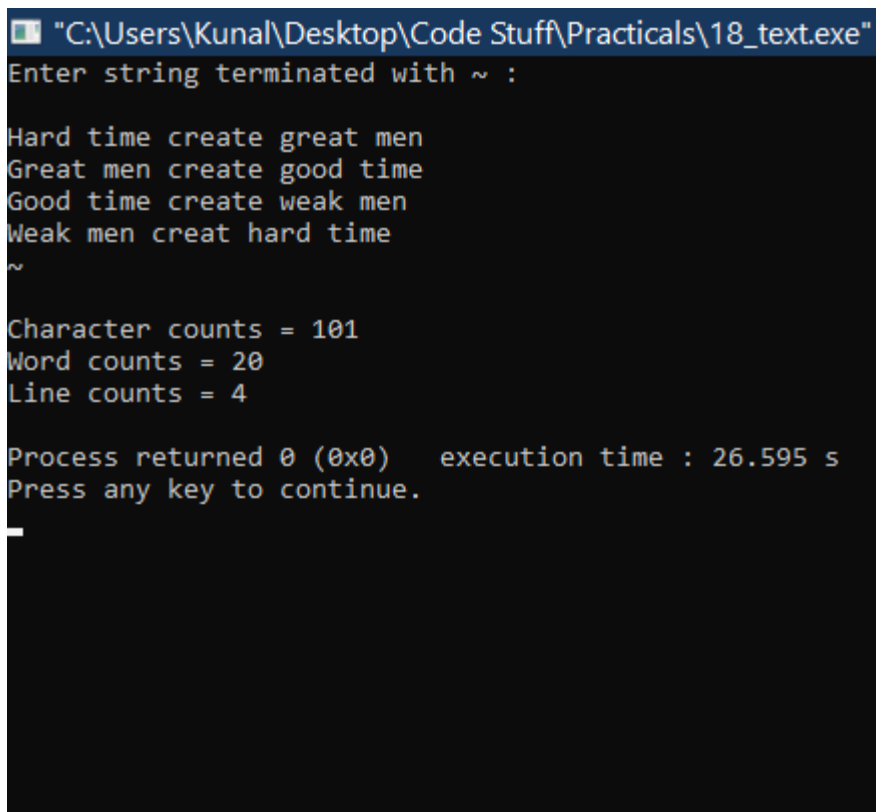
```
printf("\nCharacter counts = %d\n", ch);
```

```
printf("Word counts = %d\n", word);
```

```
printf("Line counts = %d\n", line);
```

```
return 0;
```

```
}
```



```
"C:\Users\Kunal\Desktop\Code Stuff\Practicals\18_text.exe"  
Enter string terminated with ~ :  
  
Hard time create great men  
Great men create good time  
Good time create weak men  
Weak men creat hard time  
~  
  
Character counts = 101  
Word counts = 20  
Line counts = 4  
  
Process returned 0 (0x0)   execution time : 26.595 s  
Press any key to continue.  
_
```

**.....THE – END**