

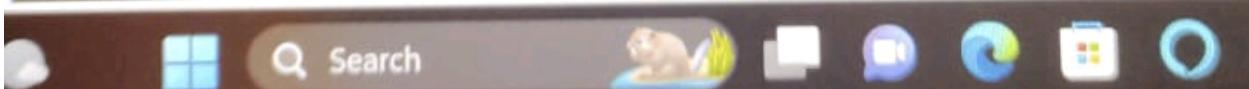
SIMATIC C IDE

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C Run Save

```
1. #include<stdio.h>
2. int main(){
3.     int arr[100],n,i;
4.     int max,min;
5.     printf("Enter the number of elements in the array:");
6.     scanf("%d",&n);
7.     printf("Enter the elements of the array:\n");
8.     for(i=0;i<n;i++){
9.         scanf("%d",&arr[i]);
10.    }
11.    max=arr[0];
12.    min=arr[0];
13.    for(i=1;i<n;i++){
14.        scanf("%d",&arr[i]);
15.    }
16.    max=arr[0];
17.    min=arr[0];
18.    for(i=1;i<n;i++){
19.        if(arr[i]>max){
20.            max=arr[i];
21.        }
22.        if(arr[i]<min){
23.            min=arr[i];
24.        }
25.    }
26.    printf("Maximum element in the array is%d\n",max);
```

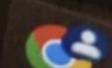


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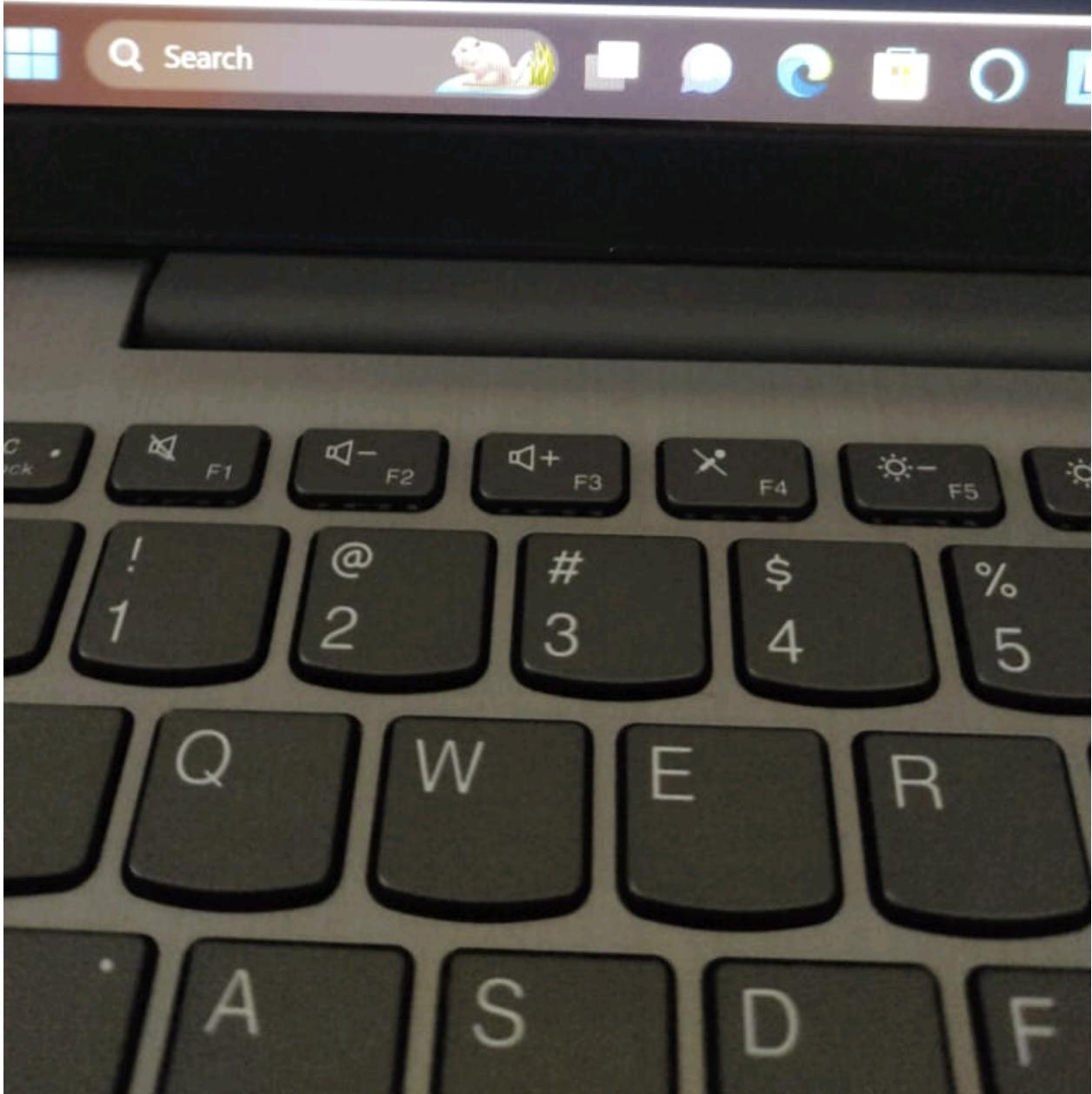
```
1. #include<stdio.h>
2. int main()
3. {
4.     int num, reversed_num=0, remainder;
5.     printf("enter an integer:");
6.     scanf("%d", &num);
7.     while(num !=0)
8.     {
9.         remainder=num%10;
10.        reversed_num=reversed_num*10+remainder;
11.        num/=10;
12.    }
13.    printf("the reversed number is:%d",reversed_num);
14.    return 0;
15. }
```



Search



```
min=arr[0];
for(i=1;i<n;i++){
scanf("%d",&arr[i]);
}
max=arr[0];
min=arr[0];
for(i=1;i<n;i++){
if(arr[i]>max){
max=arr[i];
}
if(arr[i]<min){
min=arr[i];
}
}
printf("Maximum element in the array is%d\n",max);
printf("Minimum element in the array is%d\n",min);
return 0;
}
```



▼

Run

Save

```
1. #include<stdio.h>
2. int main()
3. {
4.     int arr[10][10];
5.     int i,j,m,n,a,sum=0;
6.     printf("enter the order of the matrix\n:");
7.     scanf("%d %d",&m,&n);
8.     if(m==n)
9.     {
10.         printf("enter the coefficients of the matrix\n:");
11.         for(i=0;i<m;++i)
12.         {
13.             for(j=0;j<n;++j)
14.                 scanf("%d",&arr[i][j]);
15.         }
16.     }
17.     printf("the given matrix is\n:");
18.     for(i=0;i<m;++i)
19.     {
20.         for(j=0;j<n;++j)
21.             {
22.                 scanf("%d",arr[i][j]);
23.                 printf("\n");
24.             }
25.         for(i=0;i<m;++i)
26.         {
27.             sum=sum+arr[i][i];
28.             a=a+arr[i][m-i-1];
29.         }
30.         printf("\n the sum of main diagonal matrix is:%d\n",sum);
31.         printf("the sum of the off diagonal elements is:%d\n",a);
32.     }
33.     else
34.     {
```

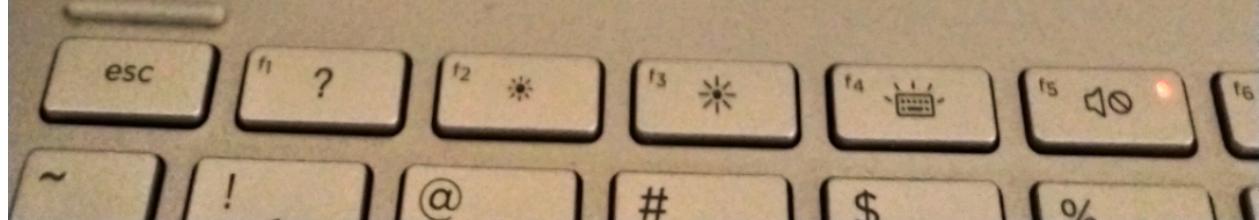


Search

```
C Run Save
1. #include<stdio.h>
2. int main()
3. {
4.     int m,n,sum=0,a;
5.     printf("enter the order of the matrix\n:");
6.     scanf("%d %d",&m,&n);
7.     if(m==n)
8.     {
9.         printf("enter the coefficients of the matrix\n:");
10.        for(i=0;i<m;++i)
11.        {
12.            for(j=0;j<n;++j)
13.            scanf("%d",&arr[i][j]);
14.        }
15.    }
16.    printf("the given matrix is\n:");
17.    for(i=0;i<m;++i)
18.    {
19.        for(j=0;j<n;++j)
20.        {
21.
22.            scanf("%d",arr[i][j]);
23.            printf("\n");
24.        }
25.        for(i=0;i<m;++i)
26.        {
27.            sum=sum+arr[i][i];
28.            a=a+arr[i][m-i-1];
29.        }
30.        printf("\n the sum of main diagonal matrix is:%d\n",sum);
31.        printf("the sum of the off diagonal elements is:%d\n",a);
32.    }
33.    else
34.    {
35.        printf("the given order is not square matrix\n");
36.    }
37.    return 0;
38. }
39.
40.
```



Search



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SIMATS C IDE

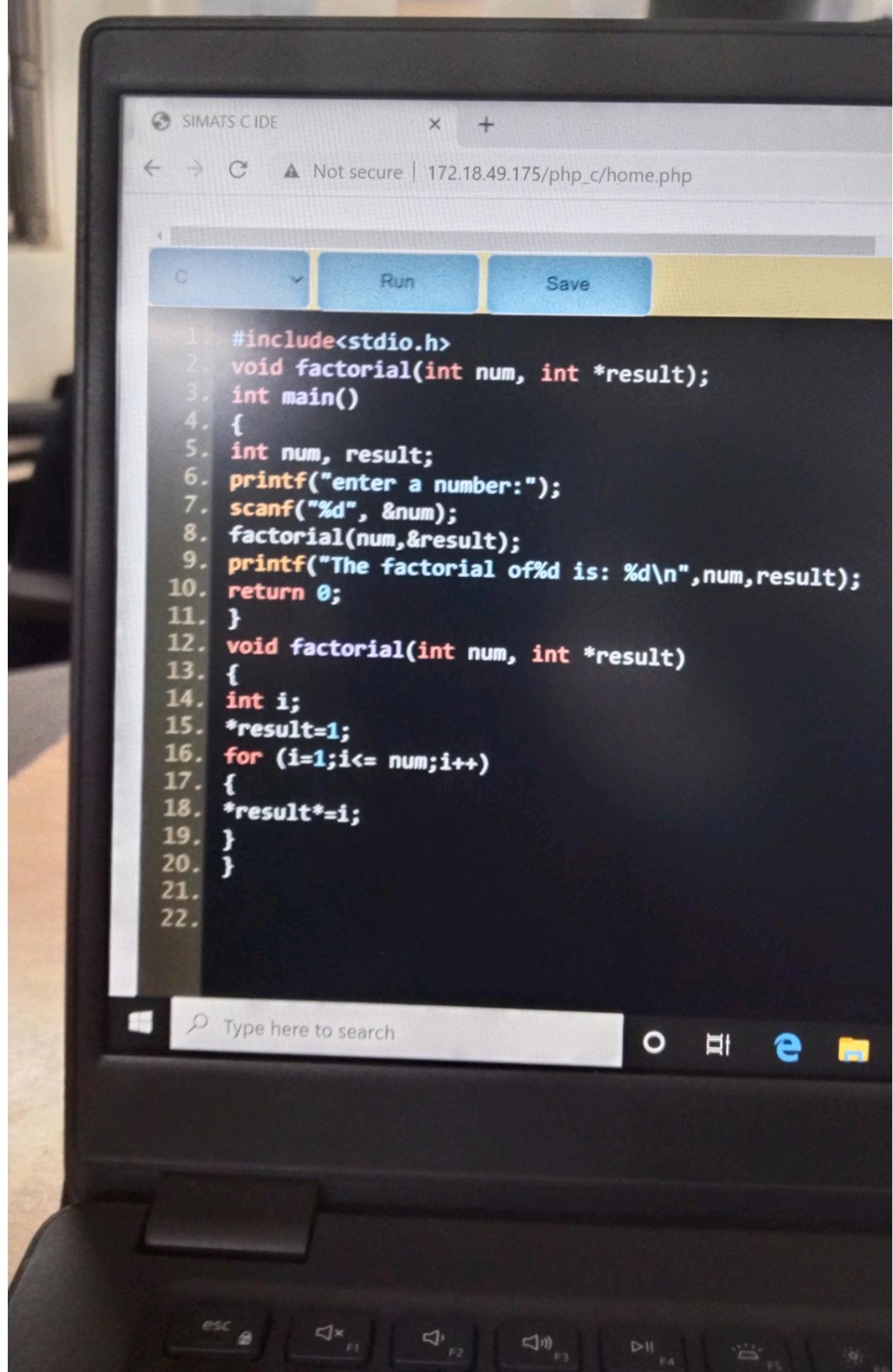
```
1. #include<stdio.h>
2.
3. void addnumbers(int *a, int *b, int *sum)
4. {
5.     *sum = *a + *b;
6. }
int main()
{
    int num1, num2, sum;
    printf("the first number");
    scanf("%d", &num1);
    printf("the second number");
    scanf("%d", &num2);
    addnumbers(&num1, &num2, &sum);
    printf("sum of %d and %d is %d", num1, num2, sum);

    return 0;
}
```

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```
1. #include<stdio.h>
2. int main()
3. {
4.     int a[25],n,i;
5.     float avg=0,sum=0;
6.     printf("enter the number of element in array:");
7.     scanf("%d",&n);
8.     printf("\n enter the array of element:\n");
9.     for(i=1;i<=n;i++)
10.    {
11.        scanf("%d",&a[i]);
12.    }
13.    for(i=1;i<=n;i++)
14.    {
15.        sum=sum+a[i];
16.        avg=sum/n;
17.    }
18.    printf("\n sum of element of array is:%f",sum);
19.    printf("\naverage of element of array are:%f",avg);
20.    return 0;
21. }
```

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ed Output :

lue before swapping are :

t 1 = 5

t 2 = 6

t 3 = 7

The screenshot shows a software interface for writing and running C programs. At the top, there are three buttons: a dropdown arrow, 'Run' (highlighted in blue), and 'Save'. Below the buttons is a code editor window containing the following C code:

```
1. #include<stdio.h>
void swap(int*a,int*b)
int main()
{
    int x,y;
    printf("enter the value of x and y\n:");
    scanf("%d%d",&x,&y);
    printf("before swapping \nx=%d\n \ny=%d\n",x,y);
    swap(&x,&y);
    printf("after swappimg \nx=%d\n \ny=%d\n",x,y);
    return 0;
}
void swap(int*a,int*b)
{
    int temp;
    temp=*b;
    *b=*a;
    *a=temp;
}
```

The code defines a swap function that takes two integer pointers as arguments and swaps their values. It also includes a main function that prompts the user for two integers, prints them before and after swapping, and then calls the swap function. The code is written in a standard C syntax with proper indentation and comments.

Test Data :  
Input a number : 5

Expected Output :  
The Factorial of 5 is : 120

```
1. #include<stdio.h>
void factorial(int n,int *r);
int main()
{
int n,r;
printf("enter the number:");
scanf("%d",&n);
factorial(n,&r);
printf("The factorial of %d is :%d\n",n,r);
return 0;
}
void factorial(int n,int *r)
{
int i;
*r=1;
for(i=1;i<=n;i++)
{
*r*=i;
}
}
```