

Online C Compiler

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Programiz C Online Compiler

Interactive C Course

main.c

Run

Output

Clear

```
1 #include <stdio.h>
2 int main()
3 {
4     int array[100], search, c, n;
5
6     printf("Enter number of elements in array\n");
7     scanf("%d", &n);
8
9     printf("Enter %d integer(s)\n", n);
10
11     for (c = 0; c < n; c++)
12         scanf("%d", &array[c]);
13
14     printf("Enter a number to search\n");
15     scanf("%d", &search);
16
17     for (c = 0; c < n; c++)
18     {
19         if (array[c] == search) /* If required element is found */
20         {
21             printf("%d is present at location %d.\n", search, c+1);
22             break;
23         }
24     }
```

/tmp/f5nk0CJG57.o
Enter number of elements in array
77
Enter 77 integer(s)
7,1,2,

Enter a number to search
0 is present at location 2.

34°C Sunny

Search

ENG IN

13:28 11-05-2023

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main.c

Run

```
6 printf("Enter number of elements in array\n");
7 scanf("%d", &n);
8
9 printf("Enter %d integer(s)\n", n);
10
11 for (c = 0; c < n; c++)
12     scanf("%d", &array[c]);
13
14 printf("Enter a number to search\n");
15 scanf("%d", &search);
16
17 for (c = 0; c < n; c++)
18 {
19     if (array[c] == search) /* If required element is found */
20     {
21         printf("%d is present at location %d.\n", search, c+1);
22         break;
23     }
24 }
25 if (c == n)
26     printf("%d isn't present in the array.\n", search);
27
28 return 0;
29 }
```

Output

Clear

```
/tmp/f5nk0CJG57.o
Enter number of elements in array
77
Enter 77 integer(s)
7,1,2,

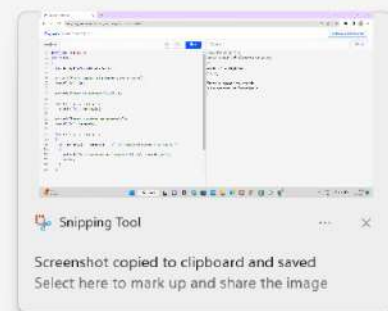
Enter a number to search
0 is present at location 2.
```

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Very high UV

Search

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Clear

```
/tmp/f5nk0CJG57.o
0
dash: 2: 0: not found
```

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main.c

Run

Output

Clear

```
1- /*
2-  * C program to find the sum of cos(x) series
3-  */
4- #include <stdio.h>
5- #include <math.h>
6-
7- void main()
8- {
9-     int n, x1, i, j;
10-    float x, sign, cosx, fact;
11-
12-    printf("Enter the number of the terms in a series\n");
13-    scanf("%d", &n);
14-    printf("Enter the value of x(in degrees)\n");
15-    scanf("%f", &x);
16-    x1 = x;
17-    /* Degrees to radians */
18-    x = x * (3.142 / 180.0);
19-    cosx = 1;
20-    sign = -1;
21-    for (i = 2; i <= n; i = i + 2)
22-    {
23-        fact = 1;
24-        for (j = 1; j <= i; j++)
```

```
/tmp/f5nk0CJG57.o
Enter the number of the terms in a series
60
Enter the value of x(in degrees)
78
Sum of the cosine series = 0.21
The value of cos(78) using library function = 0.207739
```

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main.c

Run

```
11
12 printf("Enter the number of the terms in a series\n");
13 scanf("%d", &n);
14 printf("Enter the value of x(in degrees)\n");
15 scanf("%f", &x);
16 x1 = x;
17 /* Degrees to radians */
18 x = x * (3.142 / 180.0);
19 cosx = 1;
20 sign = -1;
21 for (i = 2; i <= n; i = i + 2)
22 {
23     fact = 1;
24     for (j = 1; j <= i; j++)
25     {
26         fact = fact * j;
27     }
28     cosx = cosx + (pow(x, i) / fact) * sign;
29     sign = sign * (-1);
30 }
31 printf("Sum of the cosine series = %7.2f\n", cosx);
32 printf("The value of cos(%d) using library function = %f\n", x1,
33 cos(x));
34 }
```

Output

Clear

```
/tmp/f5nk0CJG57.o
Enter the number of the terms in a series
60
Enter the value of x(in degrees)
78
Sum of the cosine series =    0.21
The value of cos(78) using library function = 0.207739
```

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main.c

Run

```
14 scanf("%f",&n);
15 series_value=series(x,n);
16 printf("\nValue of series sin (%.2f) is: %f\n",x,series_value);
17 return 0;
18 }
19
20 int series(float x,float n)
21 {
22
23
24     int i,sum=0,sign=-1;
25     int j,fact=1,p=1;
26     for (i=1; i<=(2*n)-1; i+=2)
27     {
28         for (j=1; j<=i; j++)
29         {
30             p=p*x;
31             fact=fact*j;
32         }
33         sign=-1*sign;
34         sum=sum + sign*p/fact;
35     }
36     return (sum);
37 }
```

Output

Clear

/tmp/f5nk0CJG57.o
Enter the value of x: 100
Enter the value of n: 1000
Floating point exception

Breaking news

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main.c

Run

Output

Clear

```
1 #include<stdio.h>
2 void main()
3 {
4     int maximum(int a[],int n);
5     int max,i,n;
6     int a[50];
7     printf("Enter n number:");
8     scanf("%d",&n);
9     printf("Enter the numbers:");
10    for(i=0;i<n;i++)
11        scanf("%d",&a[i]);
12    max=maximum(a,n);
13    printf("The largest number is %d",max);
14 }
15 int maximum(int a[],int n)
16 {
17     int i,m=0;
18     for(i=0;i<n;i++)
19     {
20         if(a[i]>m)
21             m=a[i];
22     }
23     return m;
24 }
```

```
/tmp/f5nk0CJG57.o
Enter n number:40
Enter the numbers:1,2
The largest number is 1
```

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Search

Windows Taskbar

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main.c	Run	Output
<pre>1 #include <stdio.h> 2 int main() 3 { 4 int num1, num2; 5 // Ask user to enter the two numbers 6 printf("Please Enter Two different values\n"); 7 // Read two numbers from the user 8 scanf("%d %d", &num1, &num2); 9 if(num1 > num2) 10 { 11 printf("%d is Largest\n", num1); 12 } 13 else if (num2 > num1) 14 { 15 printf("%d is Largest\n", num2); 16 } 17 else 18 { 19 printf("Both are Equal\n"); 20 } 21 return 0; 22 }</pre>		<pre>/tmp/z0RXeSJjMM.o Please Enter Two different values 70 80</pre>

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main.c

Run

Output

Clear

```
1 #include <stdio.h>
2
3 int main()
4 {
5     //variable declarations
6     int a,b;
7
8     //Input values
9     printf("Enter the value of a: ");
10    scanf("%d",&a);
11    printf("Enter the value of b: ");
12    scanf("%d",&b);
13
14    //Numbers before swapping
15    printf("Before swapping... a: %d, b: %d\n",a,b);
16
17    //swapping numbers
18    a = a+b; //step 1
19    b = a-b; //step 2
20    a = a-b; //step 3
21
22    //Numbers after swapping
23    printf("After swapping... a: %d, b: %d\n",a,b);
24
25    return 0;
}
```

/tmp/z0RXeSJjMM.o

Enter the value of a: 55
Enter the value of b: 50
Before swapping... a: 55, b: 50
After swapping... a: 50, b: 55

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Search

Windows Taskbar

ENG IN 12:36 11-05-2023

main.c

Run

Output

Clear

```
1 #include<stdio.h>
2
3 int main() {
4     int x, y, temp;
5     printf("Enter the value of x and y: ");
6     scanf("%d %d", &x, &y);
7     printf("Before swapping x=%d, y=%d ", x, y);
8
9     /*Swapping logic */
10    temp = x;
11    x = y;
12    y = temp;
13    printf("After swapping x=%d, b=%d", x, y);
14    return 0;
15 }
```

```
/tmp/z0RXeSJjMM.o
Enter the value of x and y: 50
```