


01. Print a String:















C Online Compiler

C Certification
>

      	main.c <pre>1 2 #include <stdio.h> 3 4 int main() { 5 6 printf("Hello world"); 7 8 return 0; 9 }</pre>	  	Output  /tmp/CYsyp90KcN.o Hello world
---	---	---	---

02. Sum & Sub between two numbers:


C Online Compiler

         	main.c <pre>1 #include <stdio.h> 2 3 int main() { 4 int num1, num2; 5 int sum, sub; 6 printf("Please Input Your 1st value:"); 7 scanf("%d",&num1); 8 printf("Please Input Your 2nd value:"); 9 scanf("%d",&num2); 10 11 sum = num1+num2; 12 sub = num1-num2; 13 14 printf("The total of 1st & 2nd value:%d\n",sum); 15 printf("The difference between 1st & 2nd value:%d\n",sub); 16 17 18 return 0; 19 }</pre>	  	Output /tmp/TFr007MDrz.o Please Input Your 1st value:50 Please Input Your 2nd value:20 The total of 1st & 2nd value:70 The difference between 1st & 2nd value:30
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03. Using Switch case in Calculator:

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```
main.c
1 #include<stdio.h>
2 #include<math.h>
3 int e;
4 float a,b,c;
5 int main()
6 {
7     start:
8     printf("\nEnter your choice:\n1.Addition \n2.Subtraction \n3.Multiplication
9         \n4.Divition \n5.Squar Root \n6.Exit\n");
10    scanf("%d",&e);
11    switch(e)
12    {
13        case 1:
14            printf("\nEnter Two Value:\n");
15            scanf("%f%f",&a,&b);
16            c=a+b;
17            printf("\nAddition result:%0.2f",c);
18            break;
19        case 2:
20            printf("\nEnter Two Value:\n");
21            scanf("%f%f",&a,&b);
22            c=a-b;
23            printf("\nSubtraction result:%0.2f",c);
24            break;
25        case 3:
26            printf("\nEnter Two Value:\n");
27            scanf("%f%f",&a,&b);
28            c=a*b;
29            printf("\nMultiplication result:%f",c);
30            break;
31        case 4:
32            printf("\nEnter Two Value:\n");
33            scanf("%f%f",&a,&b);
34            c=a/b;
35            printf("\nDivition result:%f",c);
36            break;
37        case 5:
38            printf("\nEnter a Value:\n");
39            scanf("%f",&a);
40            c=sqrt(a);
41            printf("\nSquar Root result:%0.2f",c);
42            break;
43        default:
44            return 0;
45    }
46    goto start;
47 }
```

Output

```
/tmp/TFr007MDrz.o
Enter your choice:
1.Addition
2.Subtraction
3.Multiplication
4.Divition
5.Squar Root
6.Exit
2
Enter Two Value:
54
23
Subtraction result:31.00
Enter your choice:
1.Addition
2.Subtraction
3.Multiplication
4.Divition
5.Squar Root
6.Exit
```

04. IF else:

```
main.c
1 #include <stdio.h>
2
3 int main()
4 {
5
6     int a;
7     printf("Enter the valu of a:");
8     scanf("%d",&a);
9     if(a%2==0)
10         printf("\nEVEN");
11     else
12         printf("\nODD");
13
14     return 0;
15 }
```

Output

```
/tmp/Ef10oi6cg4.o
Enter the valu of a:21
ODD
```

05. For Loop:

Programiz C Online Compiler

main.c



Run

Output

```
1 #include <stdio.h>
2
3 int main() {
4     int i;
5
6     for (i = 1; i < 11; ++i)
7     {
8         printf("%d ", i);
9     }
10    return 0;
11 }
```

/tmp/Ef10oi6cg4.o

1 2 3 4 5 6 7 8 9 10

06. Electricity Bill:

Programiz C Online Compiler

main.c



Run

Output

```
1 #include <stdio.h>
2 int main() {
3     int cust_no, units;
4     float unitp;
5     float bill;
6     printf("Consumer ID Number:");
7     scanf("%d",&cust_no);
8     printf("Consumer Unit:");
9     scanf("%d", &units);
10    if (units>=0 && units <=200){
11        bill = units * 0.50;
12        unitp = 0.50;
13    }
14    else if (units>=201 && units <=400){
15        bill = (200 * 0.50)+(units-200)*0.65;
16        unitp = 0.65;
17    }
18    else if (units>=401 && units <=600){
19        bill = (200 * 0.50)+(200*0.65) + ((units-400)*0.80);
20        unitp = 0.80;
21    }
22    else {
23        bill = (200 * 0.50)+(200*0.65)+(200*0.80) + ((units-600)*1);
24        unitp = 1.00;
25    }
26    printf("\n Account Number of Consumer:%d",cust_no);
27    printf("\n Total Power Consume:%d kWh", units);
28    printf("\n Price of Per Unit:%0.2f TK", unitp);
29    printf("\n Total bill have to pay: %0.2f TK",bill);
30 }
```

/tmp/RVxe13JfBM.o

Consumer ID Number:65463824

Consumer Unit:658

Account Number of Consumer:65463824

Total Power Consume:658 kWh

Price of Per Unit:1.00 TK

Total bill have to pay: 448.00 TK

07. Result

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main.c

Run

```
1 #include <stdio.h>
2 int main() {
3     int eng,math,phy,che,ict,total,stu_id;
4     float avg;
5
6     printf("Input the ID of Student:");
7     scanf("%d",&stu_id);
8     printf("Enter the Mark of English:");
9     scanf("%d",&eng);
10    printf("Enter the Mark of Math:");
11    scanf("%d",&math);
12    printf("Enter the Mark of Physics:");
13    scanf("%d",&phy);
14    printf("Enter the Mark of Chemistry:");
15    scanf("%d",&che);
16    printf("Enter the Mark of ICT:");
17    scanf("%d",&ict);
18
19    total = eng+math+phy+che+ict;
20    avg = total/5;
21
22    printf("\nStudent ID:%d",stu_id);
23    printf("\nTotal Mark:%d",total);
24    printf("\nAvarage Mark:%0.2f",avg);
25
26 }
```

/tmp/RVxe13JfBM.o

Input the ID of Student:25456
Enter the Mark of English:85
Enter the Mark of Math:65
Enter the Mark of Physics:85
Enter the Mark of Chemistry:68
Enter the Mark of ICT:98
Student ID:25456
Total Mark:401
Avarage Mark:80.00

08. Area of triangle:

Programiz C Online Compiler

main.c

Run

```
1 #include <stdio.h>
2 #include <math.h>
3 int main()
4 {
5     double a, b, c, s, area;
6
7     printf("Enter 1st side value of a triangle:");
8     scanf("%lf", &a);
9     printf("Enter 2nd side value of a triangle:");
10    scanf("%lf", &b);
11    printf("Enter 3rd side value of a triangle:");
12    scanf("%lf", &c);
13
14    s = (a+b+c)/2; // Semiperimeter
15    area = sqrt(s*(s-a)*(s-b)*(s-c));
16
17    printf("Area of the triangle = %.2lf\n", area);
18
19    return 0;
20 }
```

/tmp/RVxe13JfBM.o

Enter 1st side value of a triangle:25
Enter 2nd side value of a triangle:20
Enter 3rd side value of a triangle:20
Area of the triangle = 195.16

09. Pointer

Programiz C Online Compiler

main.c	<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div>Run</div></div></div>	Output
<pre>1 #include <stdio.h> 2 int main() 3 { 4 int* pc, c; 5 c = 22; 6 printf("Address of c: %p\n", &c); 7 printf("Value of c: %d\n\n", c); // 22 8 pc = &c; 9 printf("Address of pointer pc: %p\n", pc); 10 printf("Content of pointer pc: %d\n\n", *pc); // 22 11 c = 11; 12 printf("Address of pointer pc: %p\n", pc); 13 printf("Content of pointer pc: %d\n\n", *pc); // 11 14 *pc = 2; 15 printf("Address of c: %p\n", &c); 16 printf("Value of c: %d\n\n", c); // 2 17 return 0; 18 }</pre>	<pre>/tmp/RVxe13JfBM.o Address of c: 0x7ffc24c1c404 Value of c: 22 Address of pointer pc: 0x7ffc24c1c404 Content of pointer pc: 22 Address of pointer pc: 0x7ffc24c1c404 Content of pointer pc: 11 Address of c: 0x7ffc24c1c404 Value of c: 2</pre>	

10. Swap Two Number

Programiz C Online Compiler

main.c	<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div></div><div>Run</div></div>	Output
<pre>1 #include<stdio.h> 2 int main() { 3 double first, second, temp; 4 printf("Enter first number: "); 5 scanf("%lf", &first); 6 printf("Enter second number: "); 7 scanf("%lf", &second); 8 9 temp = first; 10 11 first = second; 12 13 second = temp; 14 15 printf("\nAfter swapping, first number = %.2lf\n", first); 16 printf("After swapping, second number = %.2lf", second); 17 return 0; 18 } 19</pre>	<pre>/tmp/RVxe13JfBM.o Enter first number: 35 Enter second number: 25 After swapping, first number = 25.00 After swapping, second number = 35.00</pre>	


11. Print ASCII Value:

Programiz C Online Compiler



main.c	<div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div></div><div>Run</div></div>	Output
<pre>1 #include <stdio.h> 2 int main() { 3 char c; 4 printf("Enter a ASCII character: "); 5 scanf("%c", &c); 6 7 printf("ASCII value of %c = %d", c,c); 8 9 return 0; 10 }</pre>	<pre>/tmp/RVxe13JfBM.o Enter a ASCII character: % ASCII value of % = 37</pre>	

12. Break and Continue

i. Break

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main.c



Run


Output

```
1
2 #include <stdio.h>
3 int main()
4 {
5     int i = 0, j = 0;
6
7     for (int i = 0; i < 5; i++) {
8
9         printf("i = %d, j = ", i);
10
11         for (int j = 0; j < 5; j++) {
12
13             if (j == 2)
14                 break;
15
16             printf("%d ", j);
17         }
18         printf("\n");
19     }
20     return 0;
21 }
```



/tmp/RVxe13JfBM.o

i = 0, j = 0 1
i = 1, j = 0 1
i = 2, j = 0 1
i = 3, j = 0 1
i = 4, j = 0 1

ii. Continue

 C Online Compiler

main.c



Run

Output



```
1
2 #include <stdio.h>
3 int main()
4 {
5     int i = 0, j = 0;
6
7     for (int i = 0; i < 5; i++) {
8
9         printf("i = %d, j = ", i);
10
11         for (int j = 0; j < 5; j++) {
12
13             if (j == 2)
14                 continue;
15
16             printf("%d ", j);
17         }
18         printf("\n");
19     }
20     return 0;
21 }
```

/tmp/RVxe13JfBM.o

i = 0, j = 0 1 3 4
i = 1, j = 0 1 3 4
i = 2, j = 0 1 3 4
i = 3, j = 0 1 3 4
i = 4, j = 0 1 3 4




13. Arrays

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main.c	  	Output
<pre>1 #include <stdio.h> 2 int main() { 3 int values[7]; 4 5 printf("Enter 7 integers: "); 6 7 for(int i = 0; i < 7; ++i) { 8 scanf("%d", &values[i]); 9 } 10 11 printf("Displaying integers: "); 12 13 for(int i = 0; i < 7; ++i) { 14 printf("%d\n", values[i]); 15 } 16 return 0; 17 }</pre>		<pre>/tmp/SK40EFtIfX.o Enter 7 integers: 9 65 45 25 3 48 5 Displaying integers: 9 65 45 25 3 48 5 </pre>

14. Functions

Programiz C Online Compiler

main.c	  	Output
<pre>1 #include <stdio.h> 2 int addNumbers(int a, int b); 3 int main() 4 { 5 int n1,n2,sum; 6 7 printf("Enters 1st numbers: "); 8 scanf("%d",&n1); 9 printf("Enters 2nd numbers: "); 10 scanf("%d",&n2); 11 12 sum = addNumbers(n1, n2); 13 printf("sum = %d",sum); 14 15 return 0; 16 } 17 int addNumbers(int a, int b) 18 { 19 int result; 20 result = a+b; 21 return result; 22 }</pre>		<pre>/tmp/SK40EFtIfX.o Enters 1st numbers: 25 Enters 2nd numbers: 36 sum = 61 </pre>

15. File

 C Online Compiler

main.c



Run

Output

```
1  #include<stdio.h>
2  main()
3  {
4      FILE *myFile;
5      myFile = fopen("d:\\somenumbers.txt", "r");
6
7      //read file into array
8      int numberArray[100];
9      int i;
10
11     for (i=0; i<10; i++)
12     {
13         fscanf(myFile, "%d", &numberArray[i]);
14     }
15
16     for (i=0; i<10; i++)
17     {
18         printf("Number is : %d\n", numberArray[i]);
19     }
20 }
```

/tmp/qq6SW2nRey.o
Segmentation fault