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main.c

```
1 #include <stdio.h>
2
3 int main() {
4     // Created by Sara Elsayed on 20.07.25.
5
6     char name[] = "Sara";
7     int grade = 98;
8
9     printf("%s\n%d", name, grade);
10
11
12     return 0;
13 }
```

input

Sara
98

...Program finished with exit code 0
Press ENTER to exit console.

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Language C

main.c

```
1
2 #include <stdio.h>
3
4 int main()
5 {
6     // Created by Sara Elsayed on 20.07.25.
7     int F,C;
8     printf("Enter temperature degrees Celsius: ");
9     scanf("%d",&C);
10    F=C*95+32;
11    printf("F= %d",F);
12    return 0;
13 }
```

input

```
Enter temperature degrees Celsius: 55
F= 5257

...Program finished with exit code 0
Press ENTER to exit console.
```

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Language C

main.c

```
2 #include <stdio.h>
3
4 int main()
5 {
6     // Created by Sara Elsayed on 20.07.25.
7     int x,y,z;
8     printf("Enter three nums: ");
9     scanf("%d %d %d",&x,&y,&z);
10    if(x<y&&x<z){
11        printf("%d Is the SMALLEST",x);
12    }if(y<x&&y<z){
13        printf("%d Is the SMALLEST",y);
14    }
15    if(z<x&&z<y){
16        printf("%d Is the SMALLEST",z);
17    }
18    return 0;
19 }
```

input

```
Enter three nums: 4
5
6
4 Is the SMALLEST

...Program finished with exit code 0
Press ENTER to exit console.
```

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Language C

main.c

```
1
2 #include <stdio.h>
3
4 int main()
5 {
6     // Created by Sara Elsayed on 20.07.25.
7     #include<stdio.h>
8
9     int x,y,sol;
10    printf("Enter two nums: ");
11    scanf(" %d %d",&x, &y);
12    sol=((x+y)*3)-10;
13    printf("The Solution: %d",sol);
14
15    return 0;
16 }
```

Input

Enter two nums:4 5  
The Solution: 17  
  
...Program finished with exit code 0  
Press ENTER to exit console.

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Language C

main.c

```
4 int main()
5 {
6     // Created by Sara Elsayed on 20.07.25.
7     int x,y;
8     printf("Enter two nums: ");
9     scanf("%d %d",&x,&y);
10    if(x==y){
11        printf("X AND Y are Equal.");
12    }else{
13        printf("X AND Y are NOT Equal.");
14    }if(x>y){
15        printf("\nX is higher than Y");
16    }
17    else{
18        printf("\nY is higher than X");
19    }
20    return 0;
21 }
```

input

```
Enter two nums: 0
7
3
X AND Y are NOT Equal.
Y is higher than X

...Program finished with exit code 0
Press ENTER to exit console.
```

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Language C

main.c

```
1
2 #include <stdio.h>
3
4 int main()
5 {
6     // Created by Sara Elsayed on 20.07.25.
7     char C;
8     printf("Enter : ");
9     scanf("%c",&C);
10    printf("ASCII= %d",C);
11    return 0;
12 }
```

input

Enter : 5  
ASCII= 53  
  
...Program finished with exit code 0  
Press ENTER to exit console.

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input

main.c

```
1 #include <stdio.h>
2
3 int main() {
4     // Created by Sara Elsayed on 20.07.25.
5     for(int i=0;i<=5;i++){
6         for(int j=0;j<=i;j++){
7             printf("*");
8             printf("\n");
9         }
10    return 0;
11 }
```

```
*
**
***
****
*****
*****

...Program finished with exit code 0
Press ENTER to exit console.
```

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main.c

```
1 #include <stdio.h>
2
3 int main() {
4     // Created by Sara Elsayed on 20.07.25.
5     int sum=0;
6     for(int i=0;i<100;i++){
7         sum+=i;
8     }
9     printf("Sum =%d",sum);
10    return 0;
11 }
```

Language

input

Sum =4950

...Program finished with exit code 0

Press ENTER to exit console.



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Language C

main.c

```
1
2 #include <stdio.h>
3
4 int main()
5 {
6     // Created by Sara Elsayed on 20.07.25.
7     int C,area,circumference;
8     printf("Enter the radius of a circle: ");
9     scanf("%d",&C);
10    area=3.14*C*C;
11    printf("Area= %d",area);
12    circumference=3.14*2*C;
13    printf("\ncircumference= %d",circumference);
14    return 0;
15 }
```

input

```
Enter the radius of a circle: 5
Area= 78
circumference= 31

...Program finished with exit code 0
Press ENTER to exit console.
```

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Language C

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input

main.c

```
1 #include <stdio.h>
2
3 int main() {
4     // Created by Sara Elsayed on 20.07.25.
5     int x,y,result;
6     char operator;
7     printf("Enter two nums: ");
8     scanf("%d %d", &x,&y);
9     printf("Enter an operator (+, -, *, /): ");
10    scanf(" %c", &operator);
11    switch(operator){
12        case '+':
13            result=x+y;
14            printf("%d + %d= %d\n",x,y,result);
15            break;
16        case '-':
17            result=x-y;
18            printf("%d - %d= %d\n",x,y,result);
19            break;
20        case '*':
21            result=x*y;
22            printf("%d * %d= %d\n",x,y,result);
23            break;
24        case '/':
25            if(y != 0) {
26                result = x/ y;
27                printf("%d / %d = %d\n", x,y, result);
28                // ليس لسه متغيرها float عارقه انها !
29            } else {
30                printf("Error! Division by zero is not allowed.\n");
31            }
32            break; default:
33                printf("Error! Invalid operator.\n");
34    }
35
36    return 0;
37 }
```

Enter two nums: 5 7

Enter an operator (+, -, \*, /): +

5 + 7= 12

...Program finished with exit code 0

Press ENTER to exit console.

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Language

input

main.c

```
1 #include <stdio.h>
2
3 int main() {
4     // Created by Sara Elsayed on 20.07.25.
5     int Grade;
6     printf("Enter Your Grade: ");
7     scanf("%d", &Grade);
8
9     if (Grade > 85) {
10         printf("Excellent\n");
11     } else if (Grade > 75) {
12         printf("Very Good\n");
13     } else if (Grade > 65) {
14         printf("Good\n");
15     } else if (Grade > 50) {
16         printf("Pass\n");
17     } else {
18         printf("Fail\n");
19     }
20
21     return 0;
22 }
```

```
Enter Your Grade: 93
Excellent

...Program finished with exit code 0
Press ENTER to exit console.
```

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Language

main.c

```
1
2 #include <stdio.h>
3
4 int main()
5 {
6     // Created by Sara Elsayed on 20.07.25.
7     int num;
8     printf("Enter num: ");
9     scanf("%d",&num);
10    if(num<0){
11        printf("%d NOT perfect square",num);
12    }for(int i=0;i<=num;i++){
13        if(i*i==num){
14            printf("%d Is perfect square",num);
15            return 0;
16        }
17    }
18    printf("%d NOT perfect square",num);
19
20    return 0;
21
22 }
```

input

```
Enter num: 4
4 Is perfect square

...Program finished with exit code 0
Press ENTER to exit console.
```