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online Compiler

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main.c

// QUESTION 16

```
1 // Online C compiler to run C program online
2
3 #include <stdio.h>
4 #include <math.h>
5
6 int main() {
7     double initialVelocity = 30.0;
8     double acceleration = 5.0;
9     double distance = 70.0;
10    double finalVelocity;
11    finalVelocity = sqrt(initialVelocity * initialVelocity + 2 * acceleration *
12                          distance);
13
14    printf("The final velocity of the car is %.2lf m/s.\n", finalVelocity);
15
16    return 0;
17 }
18
19
20
21
22
23
24
25
```

Output

/tmp/yf496wzBPu.o
The final velocity of the car is 40.00 m/s.

90°F Sunny Search 34 12:45 PM ENG IN 9/17/2023

The screenshot shows a Windows desktop environment. In the center, there is a window titled "main.c" which contains a C program. The code calculates final velocity and distance traveled given initial velocity, acceleration, and time. The output window shows the results: (a) Final velocity: 12.00 m/s and (b) Distance traveled: 18.00 meters. The desktop background is light blue with a subtle grid pattern. The taskbar at the bottom has several pinned icons, including Microsoft Edge, File Explorer, and other utility apps. The system tray shows the date (8/17/2023), time (1:55 PM), battery status (ENG IN), and a weather icon indicating 90°F and sunny conditions.

```
main.c // QUESTION 17 I
1 // Online C compiler to run C program online
2
3 int main() {
4     float initialVelocity = 0.0;
5     float acceleration = 4.0;
6     float time = 3.0;
7     float finalVelocity = initialVelocity + (acceleration * time);
8     float distance = (initialVelocity * time) + (0.5 * acceleration * time * time);
9     printf("(a) Final velocity: %.2f m/s\n", finalVelocity);
10    printf("(b) Distance traveled: %.2f meters\n", distance);
11    return 0;
12 }
13
14
15
16
17
18
19
20
21
22
23
24
25
```

Output

```
/tmp/yf496wzBPu.o
(a) Final velocity: 12.00 m/s
(b) Distance traveled: 18.00 meters
```

A screenshot of a computer screen showing a C program being run online. The program calculates the sum of the last four digits of a university roll number. The code is pasted below.

```
main.c // QUESTION 18
1 // Online C compiler to run C program online
2
3 #include <stdio.h>
4
5 int main() {
6
7     int rollNumber, lastFourDigits, digit, sum = 0;
8     printf("Enter your university roll number: ");
9     scanf("%d", &rollNumber);
10    lastFourDigits = rollNumber % 10000;
11    while (lastFourDigits > 0) {
12        digit = lastFourDigits % 10;
13        sum += digit;
14        lastFourDigits /= 10;
15    }
16
17    printf("The sum of the last four digits of your roll number is: %d\n", sum
18         );
19
20    return 0;
21 }
```

The output window shows the program's execution:

```
/tmp/yf496wzBPu.o
Enter your university roll number: 15
The sum of the last four digits of your roll number is: 6
```

The system tray at the bottom shows a weather icon for 90°F and a date/time indicator of 1:59 PM 9/17/2023.

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main.c

```
1 // QUESTION 19
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7~ int main() {
8     double heightInCm = 175.0;
9     double weightInKg = 70.0;
10    double cmToInch = 0.393701;
11    double kgToPound = 2.20462;
12    double heightInFeet = heightInCm * cmToInch / 12.0;
13    double weightInPound = weightInKg * kgToPound;
14    printf("Height: %.2lf cm, which is %.2lf feet\n", heightInCm, heightInFeet
15          );
16    printf("Weight: %.2lf kg, which is %.2lf pounds\n", weightInKg,
17           weightInPound);
18
19
20
21
22
23
24 }
```

Output

```
/tmp/yf496wzBPu.o
Height: 175.00 cm, which is 5.74 feet
Weight: 70.00 kg, which is 154.32 pounds
```

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ENGLISH 8/17/2023

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main.c // QUESTION 20

```
1 // QUESTION 20
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7 int main() {
8     char option;
9     int sum = 0;
10    float product = 1.0;
11
12    printf("char option");
13    printf ("int sum = 0");
14    printf("\nfloat product = 1.0");
15    return 0;
16 }
```

Output

```
/tmp/yf496wzBPu.o
char option
int sum = 0
float product = 1.0
```

Clear

JS
GO
PHP
Python
Java
C++
C#
VB.NET
Ruby
Perl
Fortran
Julia
MATLAB
Octave
Mathematica
Maple
SageMath
Maxima
PARI/GP
Scilab
Julia
MATLAB
Octave
Mathematica
Maple
SageMath
Maxima
PARI/GP
Scilab

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DELL

The screenshot shows a web-based C compiler interface. On the left, there's a sidebar with various programming language icons (C, C++, Java, Python, etc.). The main area has tabs for "main.c" and "QUESTION 21". The code editor contains the following C program:

```
1 // QUESTION 21
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7 int main() {
8     int numbers[9];
9     printf("Enter nine integers:\n");
10    for (int i = 0; i < 9; i++) {
11        scanf("%d", &numbers[i]);
12    }
13    for (int i = 0; i < 9; i++) {
14        printf("%d", numbers[i]);
15        if ((i + 1) % 3 == 0) {
16            printf("\n");
17        } else {
18            printf(", ");
19        }
20    }
21
22    return 0;
23 }
```

The "Run" button is highlighted in blue. To the right, the "Output" window shows the program's execution:

```
/tmp/yf496wzBPu.o
Enter nine integers:
77
99
0088
78
9
78
9
09
55
90
77, 99, 88
78, 78, 9
9, 55, 90
```

At the bottom of the screen, there's a taskbar with icons for various applications like File Explorer, Edge, and Task View. The system tray shows the date (9/17/2023), time (2:18 PM), battery level (ENG IN), and weather (90°F Sunny).

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main.c

```
1 // QUESTION 22
2
3 // Online C compiler to run C program online
4
5 #include<stdio.h>
6
7 int main()
8 {
9
10     printf("Header files in C programming are files that contain
11         declarations and definitions needed for a program but are not
12         intended to be compiled on their own.");
13     printf("\nHere are some common uses and characteristics of header files
14         -in C programming: Declaration of Functions and Variables: Function
15             Prototype, Constant Definitions, Data Type Definitions, Preprocessor
16             Directives");
17
18     return 0;
19
20
21 }
```

Run Output

/tmp/yf496wzBPu.o

Header files in C programming are files that contain declarations and definitions needed for a program but are not intended to be compiled on their own. Here are some common uses and characteristics of header files in C programming: Declaration of Functions and Variables: Function Prototype, Constant Definitions, Data Type Definitions, Preprocessor Directives

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Search

2:35 PM 9/17/2023

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main.c

```
1 // QUESTION 23
2
3 // Online C compiler to run C program online
4
5 #include<stdio.h>
6 int main()
7 {
8     int num=070;
9     printf("%d\t%o\t%x",num,num,num);
10    return 0;
11 }
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
```

Output

/tmp/yf496wzBPu.o
56 70 38

Clear

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The screenshot shows a computer monitor displaying a web-based C programming environment. The interface includes a code editor with line numbers, a toolbar with icons for copy, paste, and run, and an output window showing the results of the compiled program. The operating system's taskbar is visible at the bottom, showing various application icons and system status.



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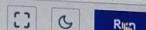
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main.c

```
1 // QUESTION 24
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6 void main()
7 {
8     int x = printf("GLA UNIVERSITY");
9     printf("%d", x);
10    return 0;
11 }
```



Output

```
/tmp/yf496wzBPu.o
GLA UNIVERSITY14
```

Clear



Windows Search



2:52 PM
9/17/2022

90°F
Sunny

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main.c

```
1 // QUESTION 25
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6 int main()
7 {
8     printf("Library functions, also known as standard library functions, are
         pre-written functions that are part of the C standard library. These
         functions provide commonly used operations and functionalities,
         allowing programmers to perform various tasks without having to write
         the code for these tasks from scratch.");
9     printf("\n Here are four common library functions in C:printf,scanf,strlen,
       ,sqrt");
10    return 0;
11 }
```

Output

/tmp/yf496wzBPu.o

Library functions, also known as standard library functions, are pre-written functions that are part of the C standard library. These functions provide commonly used operations and functionalities, allowing programmers to perform various tasks without having to write the code for these tasks from scratch.

Here are four common library functions in C:printf,scanf,strlen,sqrt

90°F Sunny 2:52 PM 8/27/2023