

main.c

```
1 // QUESTION 31
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7 int main() {
8     int sauravMoney, sajalMoney, temp;
9     printf("Enter the money given to Saurav ");
10    scanf("%d", &sauravMoney);
11    printf("Enter the money given to Sajal ");
12    scanf("%d", &sajalMoney);
13    temp = sauravMoney;
14    sauravMoney = sajalMoney;
15    sajalMoney = temp;
16    printf("After rectification:\n");
17    printf("Money given to Saurav: %d \n", sauravMoney);
18    printf("Money given to Sajal: %d \n", sajalMoney);
19
20    return 0;
21 }
```



Run

Output

```
/tmp/fe49InRQVV.o
Enter the money given to Saurav 100
Enter the money given to Sajal 20
After rectification:
Money given to Saurav: 20
Money given to Sajal: 100
```

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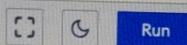


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main.c

```
1 // QUESTION 32
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7+ int main() {
8     double speedKmph = 4.0;
9     double timeMinutes = 3.0;
10
11    double timeHours = timeMinutes / 60.0;
12    double distanceKm = speedKmph * timeHours;
13
14    printf("Distance traveled: %.2lf kilometers\n", distanceKm);
15    return 0;
16 }
```



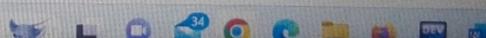
Run

Output

```
/tmp/fe49InRQVV.o
Distance traveled: 0.20 kilometers
```

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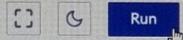
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main.c

```
1 // QUESTION 33
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7 int main() {
8     printf("Hello, \n\tWorld!\n");
9     return 0;
10 }
```



Run

Output

```
/tmp/fe49InRQVV.o
Hello,
    World!
```

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main.c

```
1 // QUESTION 34
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7 int main() {
8     printf("Comments in a C program are non-executable statements that are used
          to provide explanations, descriptions, or notes within the source code.
          Comments are ignored by the C compiler and are meant for human readers to
          understand the code better. They are crucial for documenting code, making it more
          readable, and helping other programmers (including your future self) understand your code");
9     printf("\n\nSingle-Line Comments:** Single-line comments are used for brief
          comments that span only one line. They start with '//' and continue until the
          end of the line");
10    printf("\n\nMulti-Line Comments: Multi-line comments are used for longer
           comments that may span multiple lines. They start with '/*' and end with '*/'.
           Everything between '/*' and '*/' is considered a comment");
11    return 0;
12 }
```

Output

/tmp/fe49InRQVV.o

Comments in a C program are non-executable statements that are used to provide explanations, descriptions, or notes within the source code. Comments are ignored by the C compiler and are meant for human readers to understand the code better. They are crucial for documenting code, making it more readable, and helping other programmers (including your future self) understand your code

Single-Line Comments:** Single-line comments are used for brief comments that span only one line. They start with '//' and continue until the end of the line

Multi-Line Comments: Multi-line comments are used for longer comments that may span multiple lines. They start with '/*' and end with '*/'. Everything between '/*' and '*/' is considered a comment

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QUESTION 35

```
// Online C compiler to run C program online
#include <stdio.h>

int main() {
    printf(" The issue with the statement is the use of incorrect double quotes
           for the format specifier and the missing ampersand & before the variable
           name. ");
}

return 0;
```

Output

/tmp/fe49InRQVV.o
The issue with the statement is the use of incorrect double quotes for the format specifier and the missing ampersand & before the variable name.

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main.c

```
1 // QUESTION 36
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6 int main()
7 {
8     if (sizeof (int) > -1)
9         printf("Yes");
10    else
11        printf("No");
12
13
14    return 0;
15 }
```

Run Output

/tmp/fe49InRQVV.o
No

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main.c

```
1 // QUESTION 37
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6 int main()
7 {
8     printf("In C, variable names have certain rules and conventions. Here are the INTEREST: Valid Variable names in C are case-sensitive, so INTEREST is valid
variable names you provided, with an explanation of whether they are
valid or invalid.");
9     printf("\n\ngross-salary: Invalid Variable names in C cannot contain hyphens
You should use underscores (_) instead if you want a separator in the
name, like gross_salary.");
10    printf("\n\nINTEREST: Valid Variable names in C are case-sensitive, so
INTEREST is valid variable name.");
11    printf("\n\nsalary of emp: Invalid Variable names cannot contain spaces,
You can use underscores (_) or camel case (salaryOfEmp) to separate words
");
12    printf("\n\navg.: Invalid Variable names cannot contain a period (.). Avoid
using special characters in variable names.");
13    printf("\n\nthereisbookinmysoup: Valid This variable name consists of
letters and underscores and does not violate any C naming rules. So, the
valid variable names are INTEREST and thereisbookinmysoup.");
14
15 }
```

Run

Output

/tmp/fe49InRQVV.o

In C, variable names have certain rules and conventions. Here are the variable names you provided, with an explanation of whether they are valid or invalid:

gross-salary: Invalid Variable names in C cannot contain hyphens You should use underscores (_) instead if you want a separator in the name, like gross_salary.

INTEREST: Valid Variable names in C are case-sensitive, so INTEREST is valid variable name.

salary of emp: Invalid Variable names cannot contain spaces. You can use underscores (_) or camel case (salaryOfEmp) to separate words.

avg.: Invalid Variable names cannot contain a period (.). Avoid using special characters in variable names.

thereisbookinmysoup: Valid This variable name consists of letters and underscores and does not violate any C naming rules. So, the valid variable names are INTEREST and thereisbookinmysoup.

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```
 // QUESTION 38
 // Online C compiler to run C program online

#include <stdio.h>

int main() {
    double tankSize = 175.0;
    double rate = 25.0;
    double timeRequired;

    timeRequired = tankSize / rate;

    printf("Time required to completely clean the tank: %.2lf hours\n",
           timeRequired);
    return 0;
}
```

The screenshot shows a Windows desktop environment with a C programming editor window open. The code in the editor is a simple C program named 'q38.c' that calculates the time required to empty a tank given its size and a constant rate. The output window shows the compiled file path and the resulting output of the program.

Output

```
/tmp/Zg0MpMT6r3.o
Time required to completely clean the tank: 7.00 hours
```



The screenshot shows a web-based C compiler interface. At the top, there's a navigation bar with the Programiz logo, a search bar, and links for "C Online Compiler", "Top Games", "Fun Skill Games For Free", and "TopGames.Com". Below the navigation bar is a banner for "TOP GAMES" with links to "Hill Climb Racing", "Scary Granny", and "Vegas Crime Simulator". A "Run" button is located above the code editor.

The code editor window contains the following C code:

```
main.c // QUESTION 39
1 // Online C compiler to run C program online
2
3 #include <stdio.h>
4
5 int main() {
6     double batteryPower = 0.75; // 75% in decimal form
7     double hours;
8
9     hours = (1 - batteryPower) / (-0.2);
10
11    printf("After %.2lf hours, the battery power is at 75%.\\n", hours);
12
13    return 0;
14 }
15 }
```

The output window shows the result of running the program:

```
/tmp/cLhXwkF7tu.o
After -1.25 hours, the battery power is at 75%.
```

The system tray at the bottom of the screen displays weather information (90°F, Sunny), system icons (Search, Mail, etc.), and a timestamp (16:06 PM, 9/17/2023).

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sin.c

// QUESTION 40

// Online C compiler to run C program online

```
#include <stdio.h>

int main()
{
    printf("Question: Which of the following is used to convert the high level
language in machine language in a single go?");
    printf("\n\nAnswer:Compiler");
    return 0;
}
```

Run Output Clear

/tmp/LiMfLuYVQm.o

Question: Which of the following is used to convert the high level language in machine language in a single go?

Answer:Compiler

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main.c



Run

Output

```
1           // QUESTION 41
2
3     // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7 int main() {
8     printf("Question:What is the format specifier for an Octal Number?");
9     printf("\nAnswer: %0");
10    return 0;
11 }
```

/tmp/tEztLgo60B.o

Question:What is the format specifier for an Octal Number?

Answer: %0



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Online Compiler

main.c

```
1 // QUESTION 42
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7 int main() {
8     printf("Question:2. Which format specifier is used to print the exponent
9         value upto 2 decimal places.");
10    printf("\nAnswer: %e ");
11 }
```

Run

Output

/tmp/tEztlgo60B.o

Question:2. Which format specifier is used to print the exponent value upto 2 decimal places.

Answer: 0.000000e+00

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Output

```
main.c // QUESTION 44
1 // Online C compiler to run C program online
2
3 #include<stdio.h>
4 void main()
5 {
6     int x=0;
7     x= printf("\hello\b\"");
8     printf("%d",x);
9 }
10
11 }
```

/tmp/tEztLgo60B.o
"hello\b"8

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main.c

1 // QUESTION 43

2

3 // Online C compiler to run C program online

4

5 #include <stdio.h>

6 int main()

7 {

8 float c = 5.0;

9 printf ("Question:Which of the following is not a basic data type?");

10 printf("Answer:Array")

11 return 0;

12 }

Run

Output

ERROR!

```
gcc /tmp/she6FrgZcu.c -lm
/tmp/she6FrgZcu.c: In function 'main':
/tmp/she6FrgZcu.c:10:23: error: expected ';' before 'return'
  10 | printf("Answer:Array")
                  ^
  |
  11 | return 0;
      ~~~~~
```

Clear

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COMPUTER

ASSIGNMENT

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SECTION - AY

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