

main.c

```
1
2      // QUESTION 27
3
4      // Online C compiler to run C program online
5
6      #include <stdio.h>
7      int main()
8      {
9
10         printf("The given statement reads two integer values from the user and stores
            them in variables 'a' and 'b'. It then prints the number of successful
            inputs (usually 2) to the console.");
11         printf("\n In simpler terms, it tells you how many integers you successfully
            entered when prompted.");
12         return 0;
13     }
```



Run

Output

Clear

/tmp/gRwG0bHSKE.o

The given statement reads two integer values from the user and stores them in variables 'a' and 'b'. It then prints the number of successful inputs (usually 2) to the console.


In simpler terms, it tells you how many integers you successfully entered when prompted.




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main.c

Run

Output

```
1
2 // QUESTION 29
3
4 // Online C compiler to run C program online
5
6 #include <stdio.h>
7
8 int main() {
9     double distance, time, speed;
10
11     printf("Enter the distance between GLA University and Delhi ");
12     scanf("%lf", &distance);
13
14     printf("Enter the time taken to reach Delhi by bus ");
15     scanf("%lf", &time);
16
17     speed = distance / time;
18     printf("The speed of the bus is %.2lf km/h\n", speed);
19 }
20 return 0;
21 }
22
23
24
25
```

/tmp/gRwG0bHSKE.o
Enter the distance between GLA University and Delhi 999
Enter the time taken to reach Delhi by bus 242
The speed of the bus is 4.13 km/h



main.c

```
1
2      // QUESTION 28
3
4      // Online C compiler to run C program online
5
6      #include <stdio.h>
7      void main()
8      {
9          printf(" \nC % FOR % PLACEMENT\");
10     }
11
12
13
14
15
```

Run

Output

```
/tmp/gRwG0bHSKE.o
"C % FOR % PLACEMENT"
```



```
main.c
1
2 // QUESTION 30
3
4 // Online C compiler to run C program online
5
6 #include <stdio.h>
7
8 int main() {
9     int satyamMarks = 50;
10    int sumanMarks = 70;
11    int shyamMarks = 80;
12    int numberOfParticipants = 3;
13    double averageMarks;
14    averageMarks = (satyamMarks + sumanMarks + shyamMarks) / (double
        )numberOfParticipants;
15
16    printf("Average marks of Satyam, Suman, and Shyam: %.2f\n", averageMarks);
17
18    return 0;
19 }
20
21
22
23
```

Output

/tmp/gRwG0bHSKE.o
Average marks of Satyam, Suman, and Shyam: 66.67

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```
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 }
```

Output

```
/tmp/fe49InRQVW.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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main.c



Run

Output

```
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 }
```

/tmp/fe49InRQVV.o
Distance traveled: 0.20 kilometers

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main.c

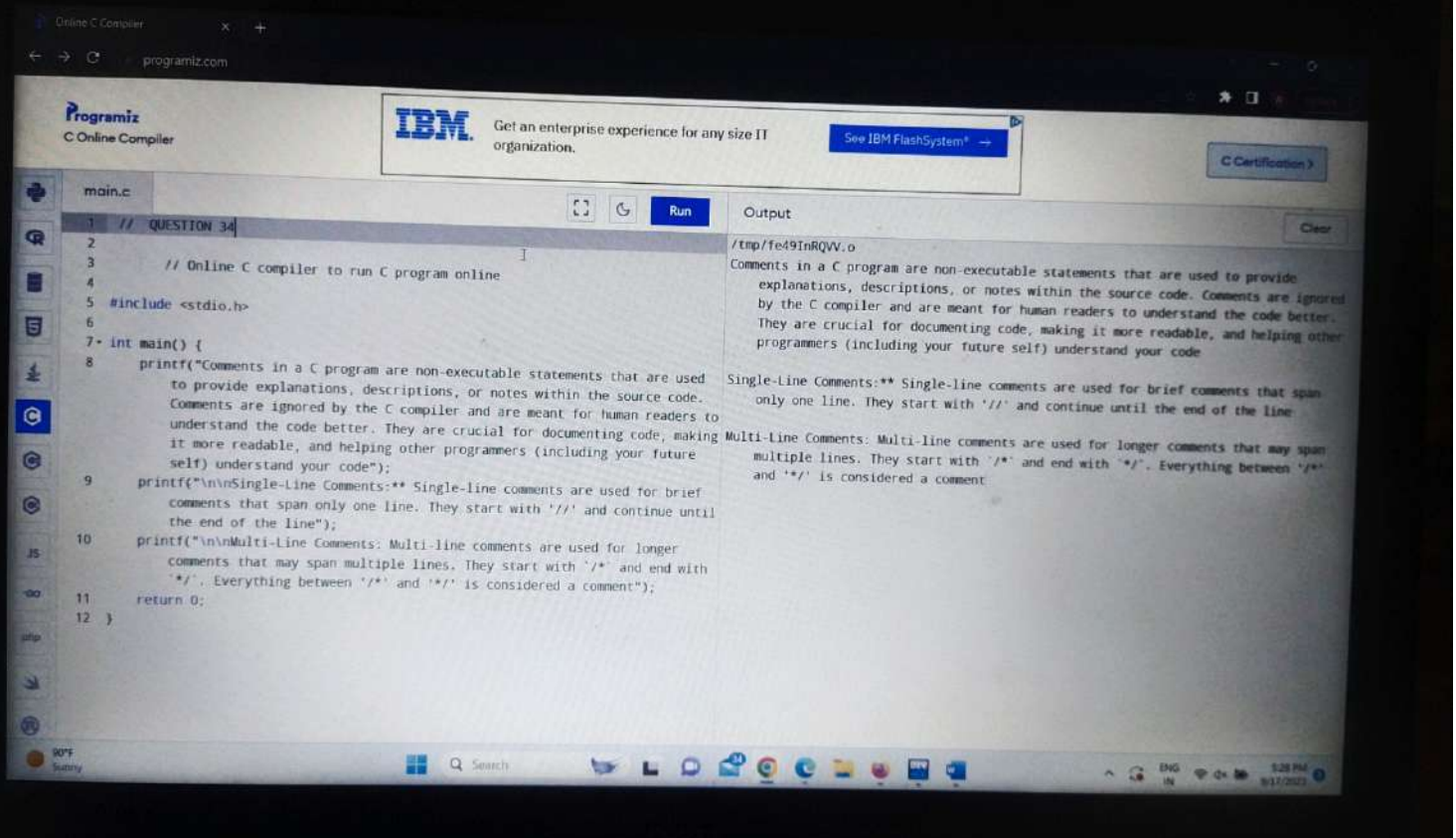


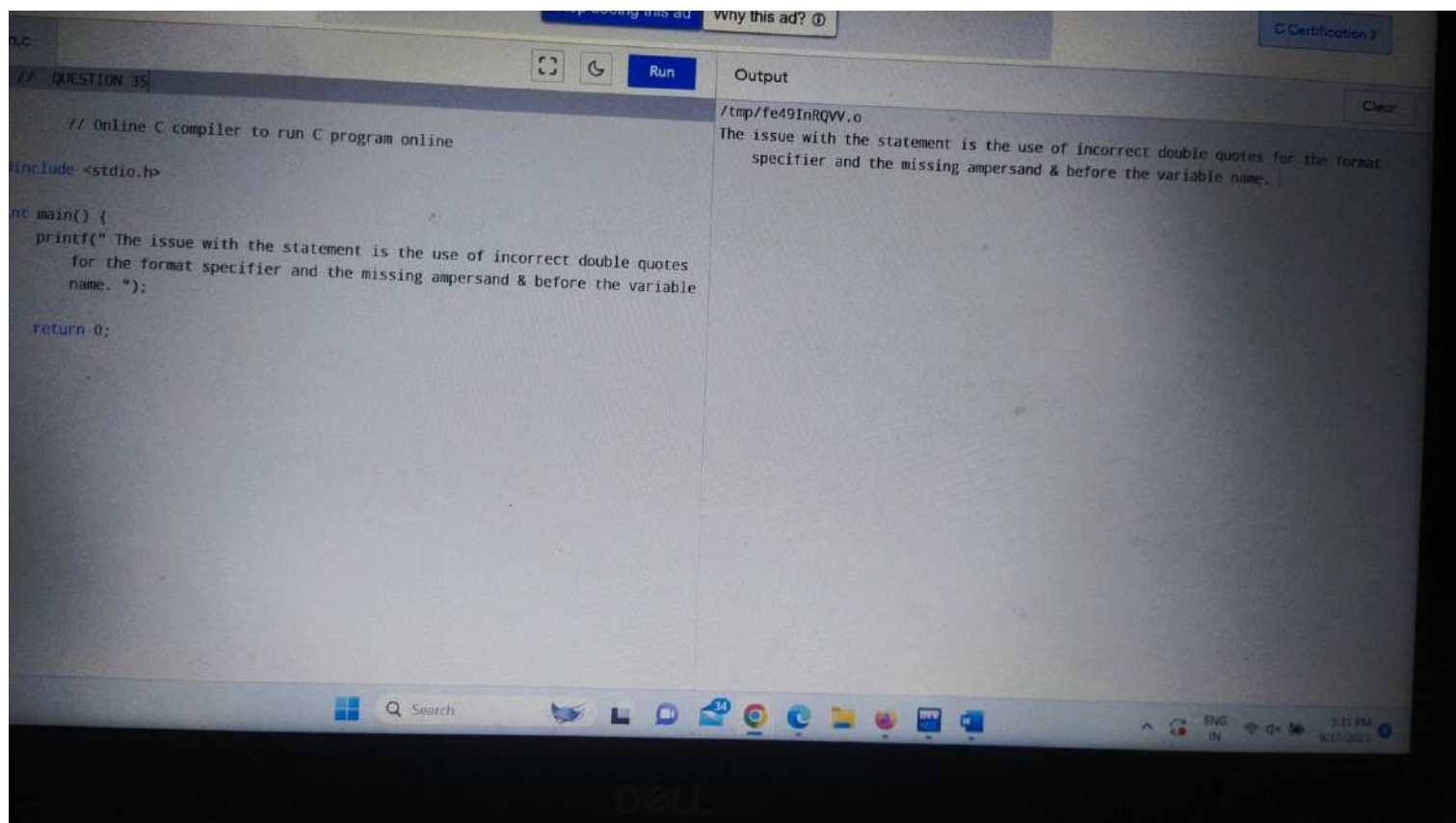
Run

Output

```
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 }
```

```
/tmp/Fe49InRQVV.o
Hello,
World!
```



main.c



Run

Output

Clear

```
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 }
```

```
/tmp/fe49InRQVW.o
No
```



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main.c

Run

Output

Clear

```
1 // QUESTION 37
2 // Online C compiler to run C program online
3
4 #include <stdio.h>
5 int main()
6 {
7     printf("In C, variable names have certain rules and conventions. Here are the
8     variable names you provided, with an explanation of whether they are
9     valid or invalid:");
10    printf("\n\ngross-salary: Invalid Variable names in C cannot contain hyphens.
11    You should use underscores (_) instead if you want a separator in the
12    name, like gross_salary.");
13    printf("\n\nINTEREST: Valid Variable names in C are case-sensitive, so
14    INTEREST is valid variable name.");
15    printf("\n\nsalary of emp: Invalid Variable names cannot contain spaces.
16    You can use underscores (_) or camel case (salaryOfEmp) to separate words.");
17    printf("\n\navg.: Invalid Variable names cannot contain a period (.). Avoid
18    using special characters in variable names.");
19    printf("\n\nthereisbookinmysoup: Valid This variable name consists of letters
20    and underscores and does not violate any C naming rules. So, the valid
21    variable names are INTEREST and thereisbookinmysoup.");
22    return 0;
23 }
```

/tmp/fe49inRQW.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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END 2% 8:11 PM 8/11/2023

// QUESTION 38

Run

Output

/tmp/Zg0MpMT6r3.o

Time required to completely clean the tank: 7.00 hours

// 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: %.21f hours\n",  
          timeRequired);
```

```
    return 0;
```

```
}
```



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main.c



Run

Output

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Clear

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

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



Answer: Compiler