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main.c

```
1 // QUESTION 1 //  
2  
3 // Online C compiler to run C program online  
4 #include <stdio.h>  
5  
6 int main() {  
7     float originalPrice, taxRate, totalPrice;  
8  
9     printf("Enter the original price:");  
10    scanf("%f", &originalPrice);  
11  
12    printf("Enter the tax rate ");  
13    scanf("%f", &taxRate);  
14    totalPrice = originalPrice + (originalPrice * (taxRate / 100));  
15    printf("Total price after tax: %.2f\n", totalPrice);  
16    return 0;  
17  
18 }
```

Run

Output

```
/tmp/YKygx6SzCo.o  
Enter the original price:900  
Enter the tax rate 5  
Total price after tax: 945.00
```

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main.c

```
1 // QUESTION 2 //  
2  
3 // Online C compiler to run C program online  
4 #include <stdio.h>  
5 int main() {  
6     float hourlyWage, totalWages;  
7     int hoursWorked;  
8     printf("Enter the hourly wage: ");  
9     scanf("%f", &hourlyWage);  
10    printf("\n Enter the number of hours worked: ");  
11    scanf("%d", &hoursWorked);  
12    if (hoursWorked <= 30) {  
13        totalWages = hourlyWage * hoursWorked;  
14    }  
15    else {  
16        totalWages = hourlyWage * 30;  
17        totalWages += (hoursWorked - 30) * (hourlyWage * 2);}  
18    printf("Weekly wages: %.2f\n", totalWages);  
19    return 0;  
20 }  
21
```

Output

```
/tmp/YKyx6SzCo.o  
Enter the hourly wage: 500  
Enter the number of hours worked: 40  
Weekly wages: 25000.00
```

11:52 AM 9/17/2023

main.c

```
1 // QUESTION 3
2 // Online C compiler to run C program online
3
4 #include <stdio.h>
5 int main() {
6     float applePricePerKg = 50.0;
7     float mangoPricePerKg = 35.0;
8     float potatoPricePerKg = 10.0;
9     float tomatoPricePerKg = 15.0;
10    float appleQty = 2.0;
11    float mangoQty = 1.5;
12    float potatoQty = 2.5;
13    float tomatoQty = 1.0;
14    float appleCost = applePricePerKg * appleQty;
15    float mangoCost = mangoPricePerKg * mangoQty;
16    float potatoCost = potatoPricePerKg * potatoQty;
17    float tomatoCost = tomatoPricePerKg * tomatoQty;
18    float totalCost = appleCost + mangoCost + potatoCost + tomatoCost;
19    float initialAmount = 500.0;
20    float amountToReturn = initialAmount - totalCost;
21    printf("Amount to be returned to Mr. X: Rs. %.2f\n", amountToReturn);
22
23    return 0;
24 }
```

Run

Output

```
/tmp/yf496wzBPu.o
Amount to be returned to Mr. X: Rs. 307.50
```

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main.c



Run

Output

```
1 // QUESTION 4
2 // Online C compiler to run C program online
3
4 #include <stdio.h>
5
6 int main() {
7     printf("Name: Your Name\n");
8     printf("Date of Birth: Your Date of Birth\n");
9     printf("Mobile Number: Your Mobile Number\n");
10
11     return 0;
12 }
13
```

/tmp/yf496wzBPu.o

Name: Your Name

Date of Birth: Your Date of Birth

Mobile Number: Your Mobile Number

Online C Compiler

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main.c

```
1 // QUESTION 5
2 // Online C compiler to run C program online
3
4 #include <stdio.h>
5
6 int main(){
7     int inputInteger;
8     char inputCharacter;
9     float inputFloat;
10
11    printf("Enter Integer,Character and Float number\n");
12    scanf("%d %c %f", &inputInteger, &inputCharacter,
13          &inputFloat);
14
15    printf("\nInteger you entered is : %d", inputInteger);
16    printf("\nCharacter you entered is : %c", inputCharacter);
17    printf("\nFloating point number you entered is : %f",
18          inputFloat);
19
20    return 0;
21 }
```

Run

Output

```
/tmp/yf496wzBPu.o
Enter Integer,Character and Float number
8
C
2.99
Integer you entered is : 8
Character you entered is : C
Floating point number you entered is : 2.990000
```

Clear

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The screenshot shows a web-based C compiler interface. The code editor window has a blue header bar with the text "you design today!" and a "Design for free" button. Below the header, the file name "main.c" is displayed. The code itself is:

```
1 // QUESTION 6
2 // Online C compiler to run C program online
3
4 #include <stdio.h>
5
6 int main() {
7     float cost = 172.53;
8
9     printf("The sales total is: %.2f\n", cost);
10
11    return 0;
12 }
```

Below the code editor is a toolbar with icons for copy, paste, and run. The "Run" button is highlighted in blue. To the right of the toolbar is an "Output" panel. The output shows the command used to compile the program: "/tmp/yf496wzBPu.o". The output of the program is: "The sales total is: \$172.53".

The taskbar at the bottom of the screen shows various application icons, including a weather widget indicating "90°F Sunny". The system tray shows the date and time as "9/17/2023 12:09 PM".

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main.c

1 // QUESTION 1

2 // Online C compiler to run C program online

3

4 #include <stdio.h>

5

6 int main() {

7 float applesFromEach = 6.5;

8 int numberOfPeople = 3;

9

10 float totalApples = applesFromEach \* numberOfPeople;

11

12 printf("Raju has a total of %.1f apples.\n", totalApples);

13

14 return 0;

15 }

16

Output

/tmp/yf496wz8Pu.o  
Raju has a total of 19.5 apples.

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main.c

```
1 // QUESTION 8
2 // Online C compiler to run C program online
3
4 #include <stdio.h>
5
6 int main() {
7     float floatValue = 12345.6789;
8
9     printf("Floating-point value in exponential format: %.2e\n", floatValue);
10
11    return 0;
12 }
```

Output

/tmp/yf496wzBPu.o  
Floating-point value in exponential format: 1.23e+04

The screenshot shows a web-based C compiler interface. On the left, there's a code editor window titled 'main.c' containing a simple C program. The program includes a comment for question 8, includes the stdio.h header, defines a main function that prints a floating-point number using a specific format specifier, and returns 0. On the right, there's an 'Output' panel displaying the compiled binary file path and the resulting output text. Above the code editor, there's a navigation bar with icons for file operations like Open, Save, and Run, along with a search bar and a user profile icon. A banner for 'C Certification' is visible on the right. The bottom of the screen shows a Windows taskbar with various pinned icons and system status indicators.

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main.c

```
1 // QUESTION 9
2 // Online C compiler to run C program online
3
4 #include <stdio.h>
5
6 int main() {
7     long long mobileNumber;
8
9
10    printf("Enter your 10-digit mobile number: ");
11    scanf("%lld", &mobileNumber);
12    if (mobileNumber >= 1000000000 && mobileNumber <= 9999999999) {
13        printf("Your mobile number is: %lld\n", mobileNumber);
14    } else {
15        printf("Invalid mobile number. Please enter a 10-digit mobile number.\n");
16    }
17
18    return 0;
19 }
```

Output

```
/tmp/yf496wzBPu.o
Enter your 10-digit mobile number: 9999
Invalid mobile number. Please enter a 10-digit mobile number.
```

JS PHP

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main.c

```
1 // QUESTION 10
2 // Online C compiler to run C program online
3
4 #include <stdio.h>
5
6 int main() {
7     int initialPopulation = 30000;
8     float growthRate1 = 0.20;
9     float growthRate2 = 0.30;
10    int populationAfterYear1 = initialPopulation + (int)(initialPopulation *
11        growthRate1);
12    int populationAfterYear2 = populationAfterYear1 + (int)(populationAfterYear1
13        * growthRate2);
14
15    printf("Population after two years: %d\n", populationAfterYear2);
16
17}
```

Output

/tmp/yf496wzBPu.o  
Population after two years: 46800

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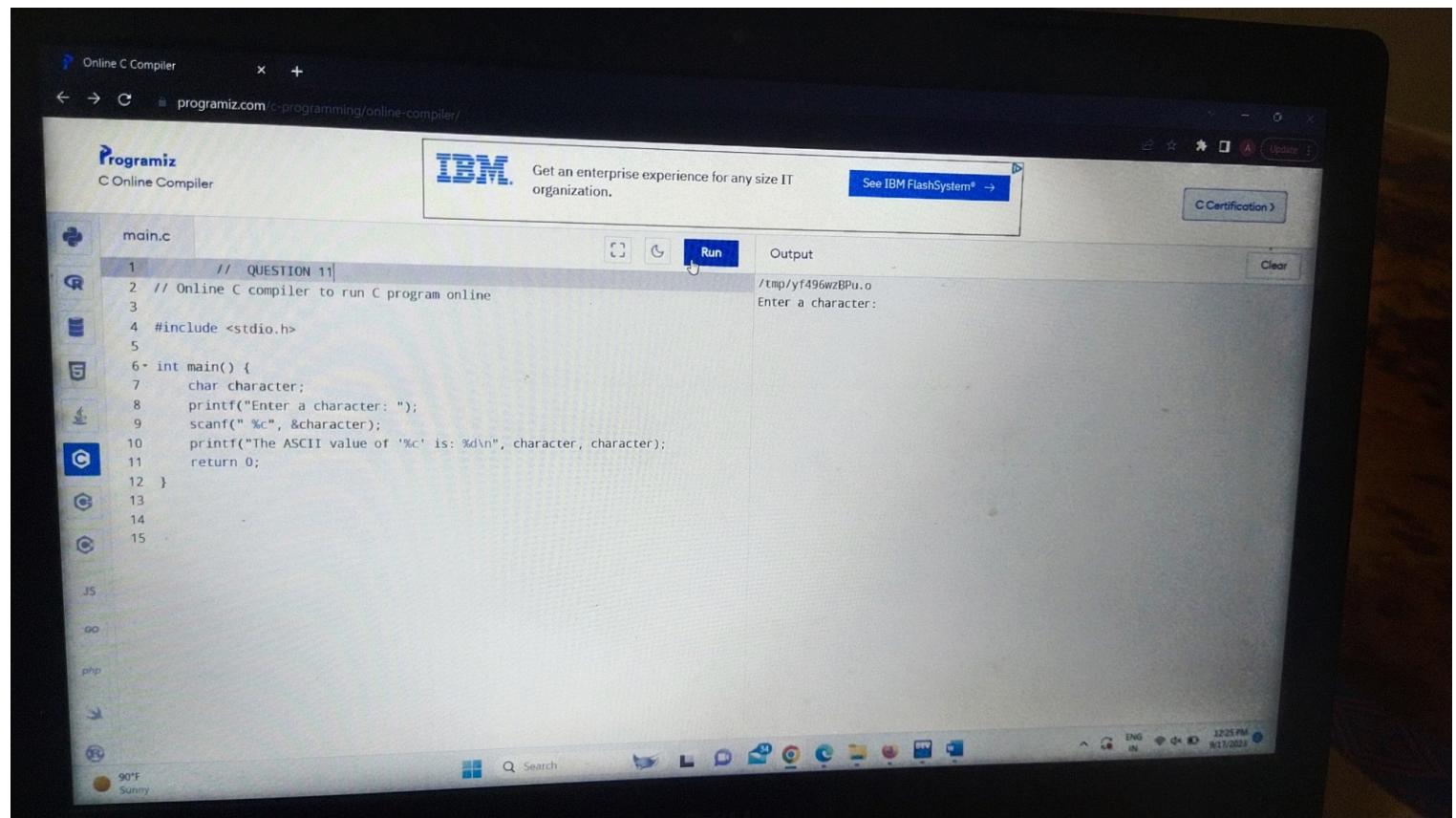
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main.c

```
1 // QUESTION 12
2 // Online C compiler to run C program online
3
4 #include <stdio.h>
5
6 int main() {
7     float basicPay, hra, ta, salary;
8     printf("Enter the basic pay: ");
9     scanf("%f", &basicPay);
10    hra = 0.15 * basicPay;
11    ta = 0.20 * basicPay;
12    salary = basicPay + hra + ta;
13    printf("Salary: %.2f\n", salary);
14
15    return 0;
16 }
```



Run

Output

```
/tmp/yf496wzBPu.o
Enter the basic pay: 900
Salary: 1215.00
```

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3/7/2023

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main.c

QUESTION 13

```
1 // Online C compiler to run C program online
2
3
4 #include <stdio.h>
5 #include <math.h>
6
7+ int main() {
8     double xp, yp, xq, yq;
9     printf("Enter the coordinates of point P (xp yp): ");
10    scanf("%lf %lf", &xp, &yp);
11
12    printf("Enter the coordinates of point Q (xq yq): ");
13    scanf("%lf %lf", &xq, &yq);
14    double slope = (yq - yp) / (xq - xp);
15    double angle = atan(slope) * 180 / M_PI;
16    printf("Slope of the line: %.2lf\n", slope);
17    printf("Angle of inclination (in degrees): %.2lf\n", angle);
18
19    return 0;
20 }
21
22
23
24
25
26
```

Output

/tmp/yf496wzBPu.o

Enter the coordinates of point P (xp yp): 56  
78

Enter the coordinates of point Q (xq yq): 99  
89

Slope of the line: 0.26

Angle of inclination (in degrees): 14.35

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main.c

```
1 // QUESTION 15
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7 int main() {
8     double wavelength, speed, frequency;
9     printf("Enter the wavelength (\lambda) of the wave (in meters): ");
10    scanf("%lf", &wavelength);
11    printf("Enter the speed (c) of the wave (in meters per second): ");
12    scanf("%lf", &speed);
13    frequency = speed / wavelength;
14    printf("The frequency (f) of the wave is %.2lf Hz.\n", frequency);
15
16    return 0;
17 }
```

Output

/tmp/yf496wzBPu.o  
Enter the wavelength ( $\lambda$ ) of the wave (in meters): 90  
Enter the speed (c) of the wave (in meters per second): 55  
The frequency (f) of the wave is 0.61 Hz.

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main.c

```
1 // QUESTION 14
2
3 // Online C compiler to run C program online
4 #include <stdio.h>
5 int main() {
6     double g1 = 3.5;
7     double g2 = 4.0;
8     double g3 = 3.0;
9     double g4 = 3.7;
10    double g5 = 3.2;
11
12    double c1 = 4.0;
13    double c2 = 3.0;
14    double c3 = 2.5;
15    double c4 = 3.5;
16    double c5 = 2.0;
17
18    double numerator = (c1 * g1) + (c2 * g2) + (c3 * g3) + (c4 * g4) + (c5 * g5
        );
19    double denominator = c1 + c2 + c3 + c4 + c5;
20    double spi = numerator / denominator;
21    printf("SPI for 5 courses: %.2f\n", spi);
22
23    return 0;
24 }
25 }
```

Output

/tmp/yT496wzBPu.o  
SPI for 5 courses: 3.52

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