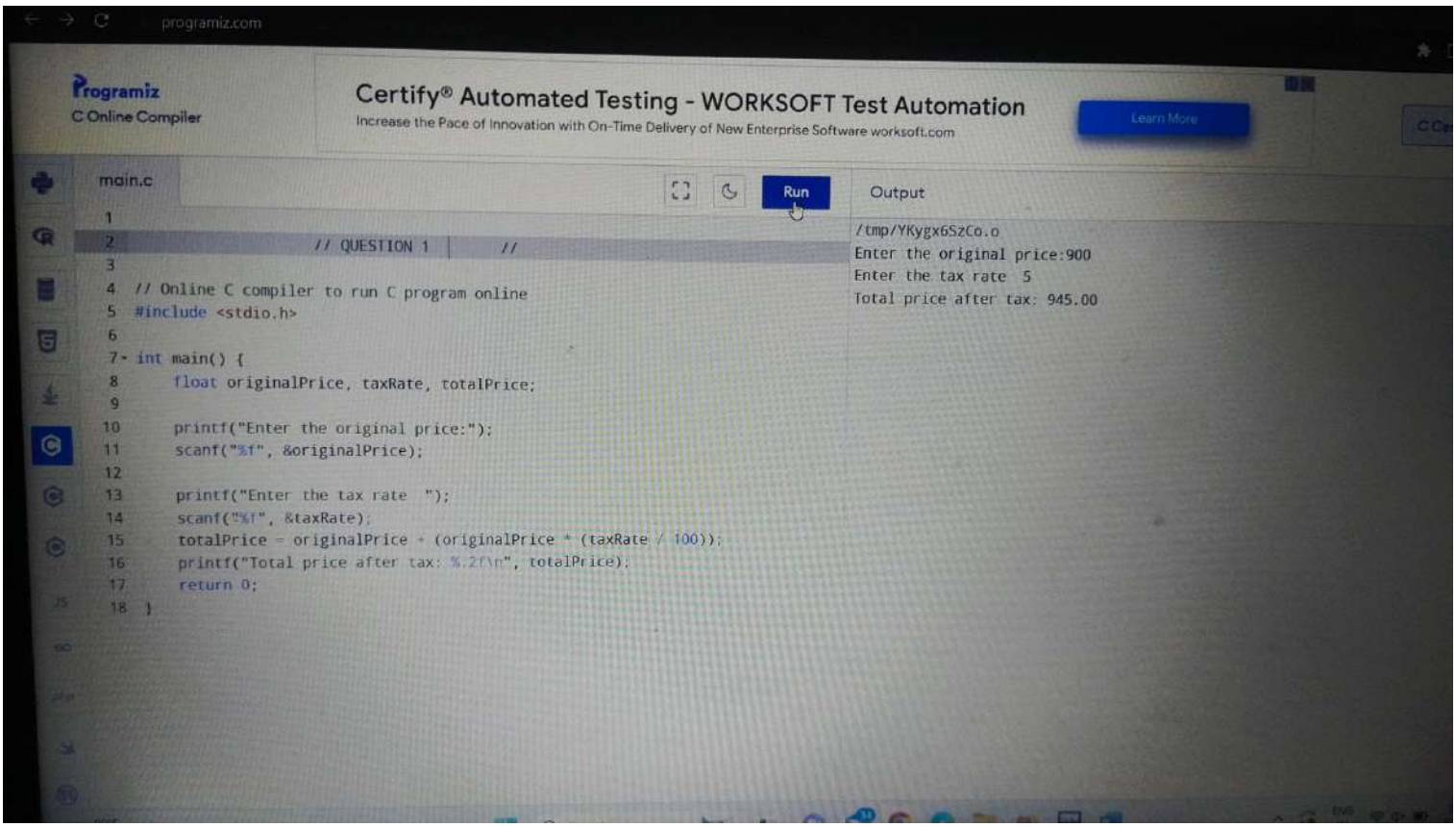
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main.c
Run
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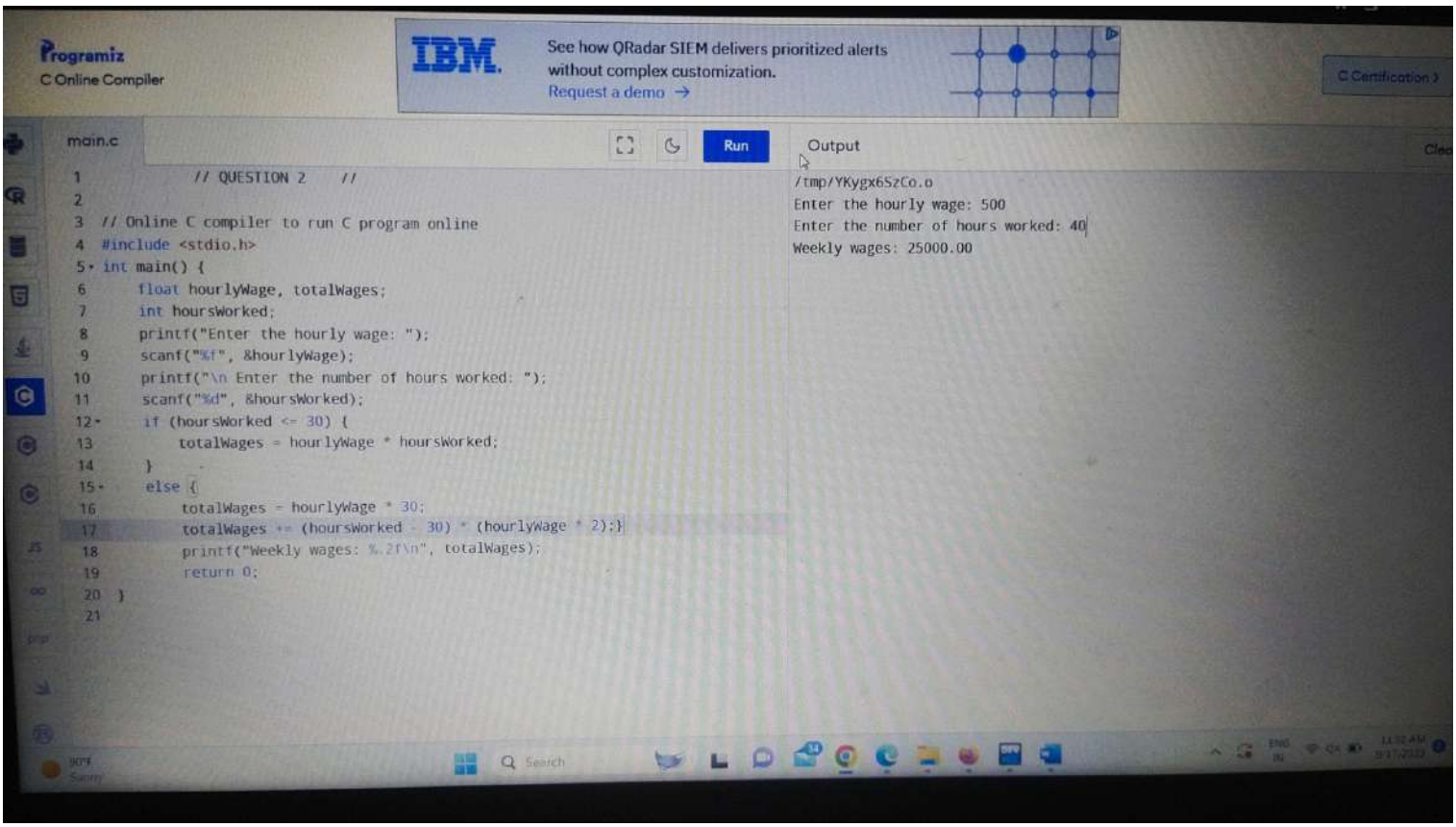
// QUESTION 1 //
// Online C compiler to run C program online
#include <stdio.h>
int main() {
float originalPrice, taxRate, totalPrice;
printf("Enter the original price:");
scanf("%f", &originalPrice);
printf("Enter the tax rate ");
scanf("%f", &taxRate);
totalPrice = originalPrice + (originalPrice * (taxRate / 100));
printf("Total price after tax: %.2f\n", totalPrice);
return 0;
}
/tmp/YKygx6SzCo.o
Enter the original price:900
Enter the tax rate 5
Total price after tax: 945.00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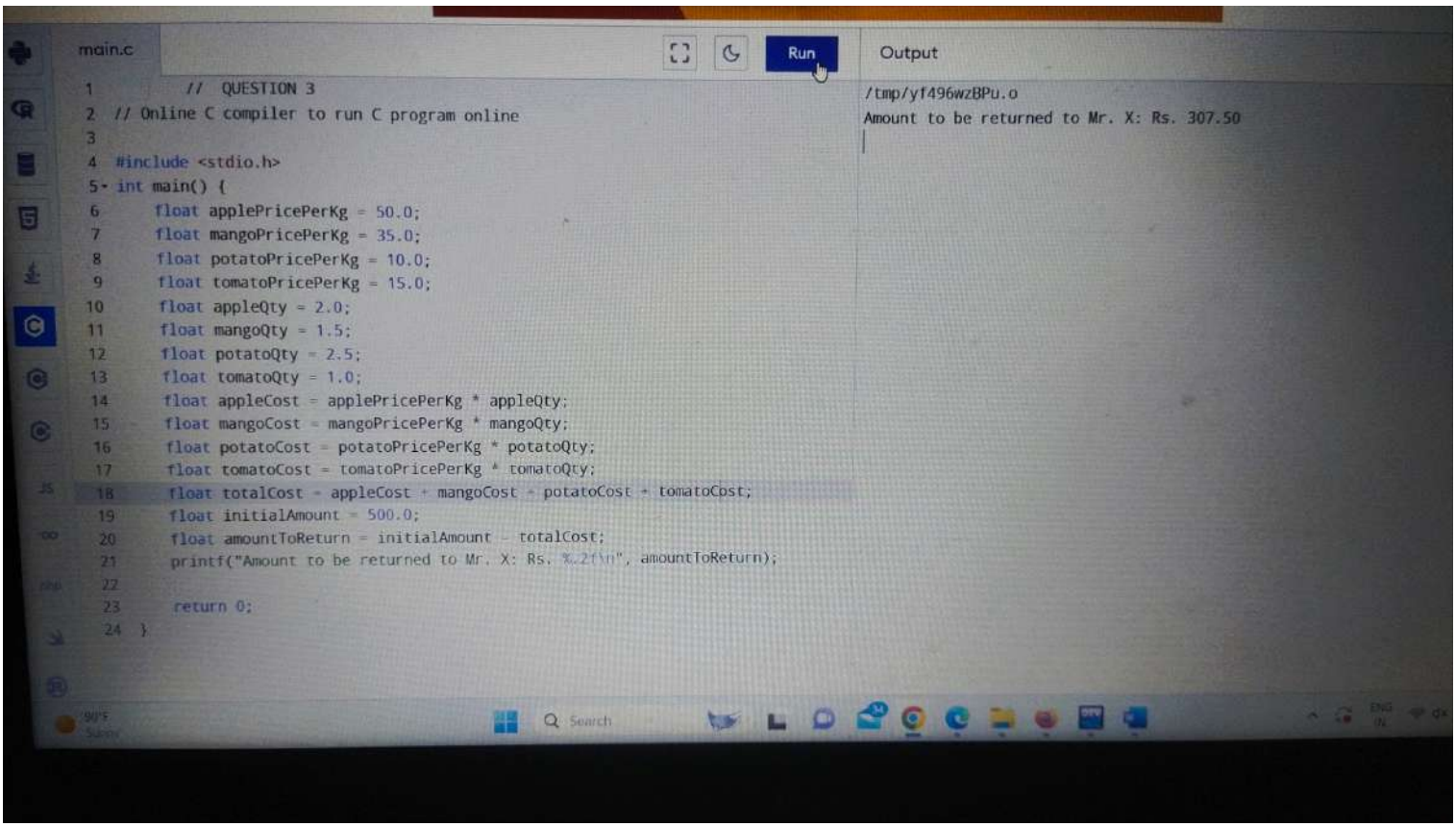
// QUESTION 2 //
// Online C compiler to run C program online
#include <stdio.h>
int main() {
float hourlyWage, totalWages;
int hoursWorked;
printf("Enter the hourly wage: ");
scanf("%f", &hourlyWage);
printf("\n Enter the number of hours worked: ");
scanf("%d", &hoursWorked);
if (hoursWorked <= 30) {
totalWages = hourlyWage * hoursWorked;
}
else {
totalWages = hourlyWage * 30;
totalWages += (hoursWorked - 30) * (hourlyWage * 2);}
printf("Weekly wages: %.2f\n", totalWages);
return 0;
}
/tmp/YKygx6SzCo.o
Enter the hourly wage: 500
Enter the number of hours worked: 40
Weekly wages: 25000.00
Search


main.c
Run
Output
// QUESTION 3
// Online C compiler to run C program online
#include <stdio.h>
int main() {
float applePricePerKg = 50.0;
float mangoPricePerKg = 35.0;
float potatoPricePerKg = 10.0;
float tomatoPricePerKg = 15.0;
float appleQty = 2.0;
float mangoQty = 1.5;
float potatoQty = 2.5;
float tomatoQty = 1.0;
float appleCost = applePricePerKg * appleQty;
float mangoCost = mangoPricePerKg * mangoQty;
float potatoCost = potatoPricePerKg * potatoQty;
float tomatoCost = tomatoPricePerKg * tomatoQty;
float totalCost = appleCost + mangoCost + potatoCost + tomatoCost;
float initialAmount = 500.0;
float amountToReturn = initialAmount - totalCost;
printf("Amount to be returned to Mr. X: Rs. %.2f\n", amountToReturn);
return 0;
}
/tmp/yf496wzBPu.o
Amount to be returned to Mr. X: Rs. 307.50
Search

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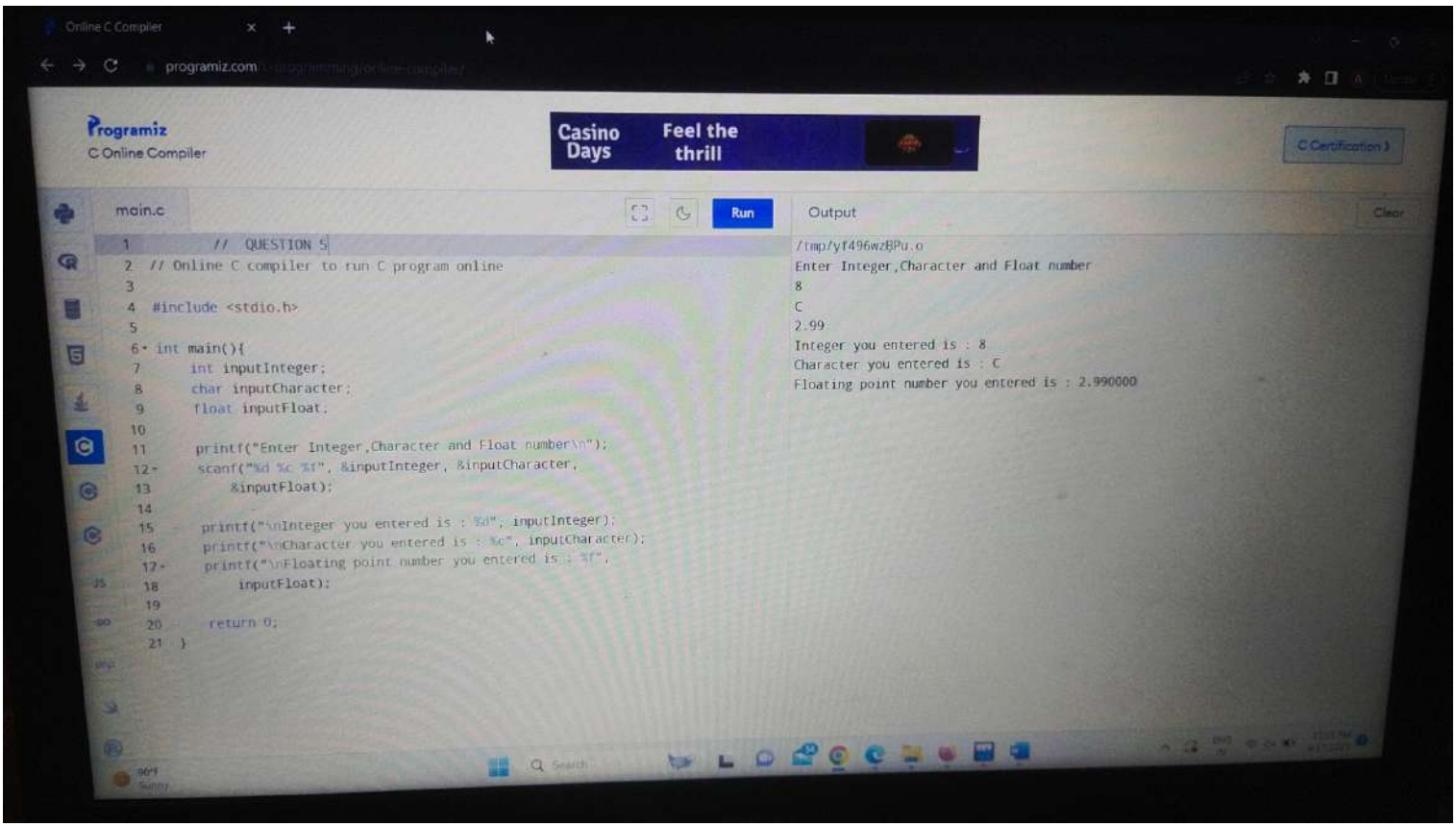
main.c

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
```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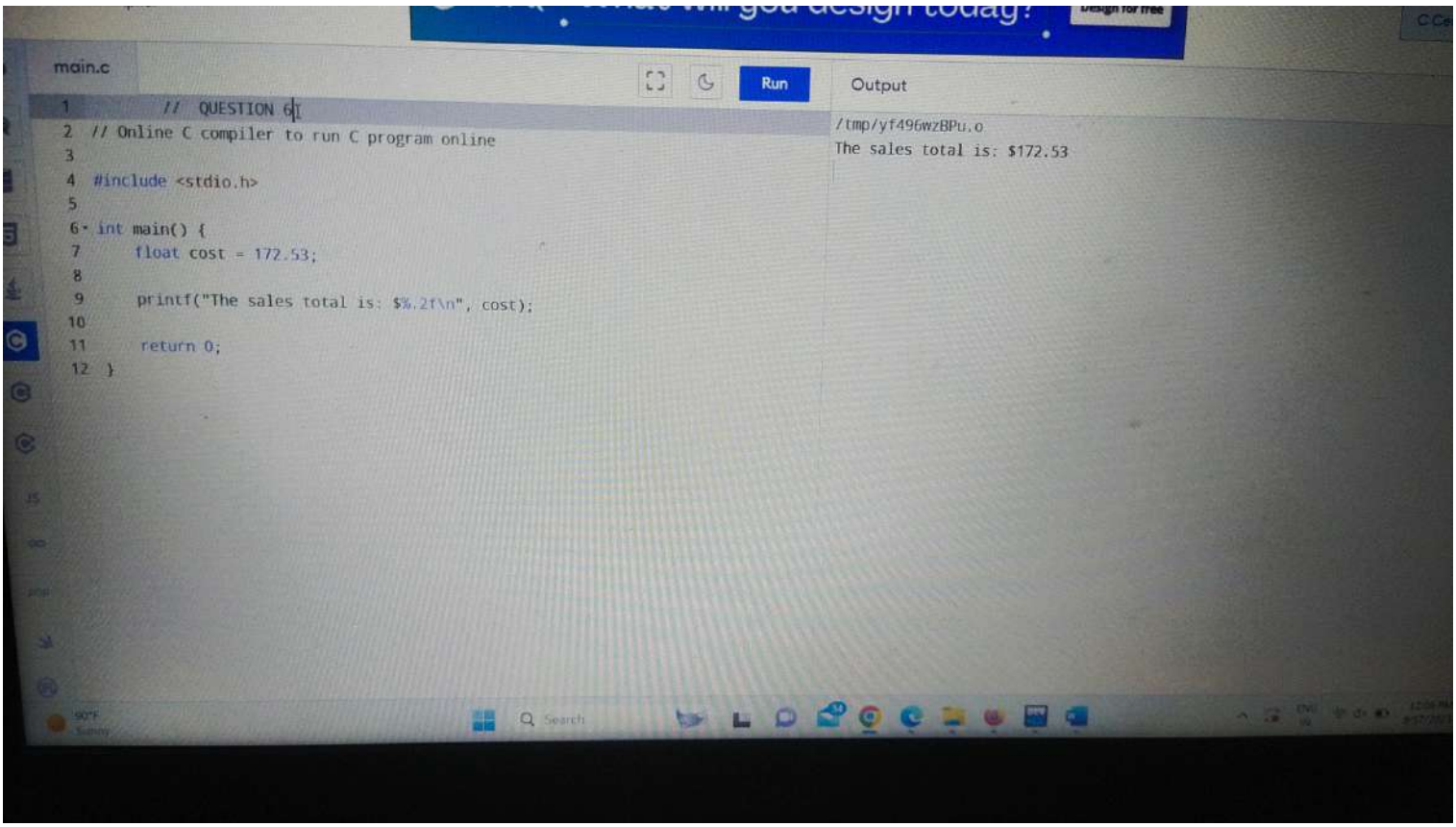
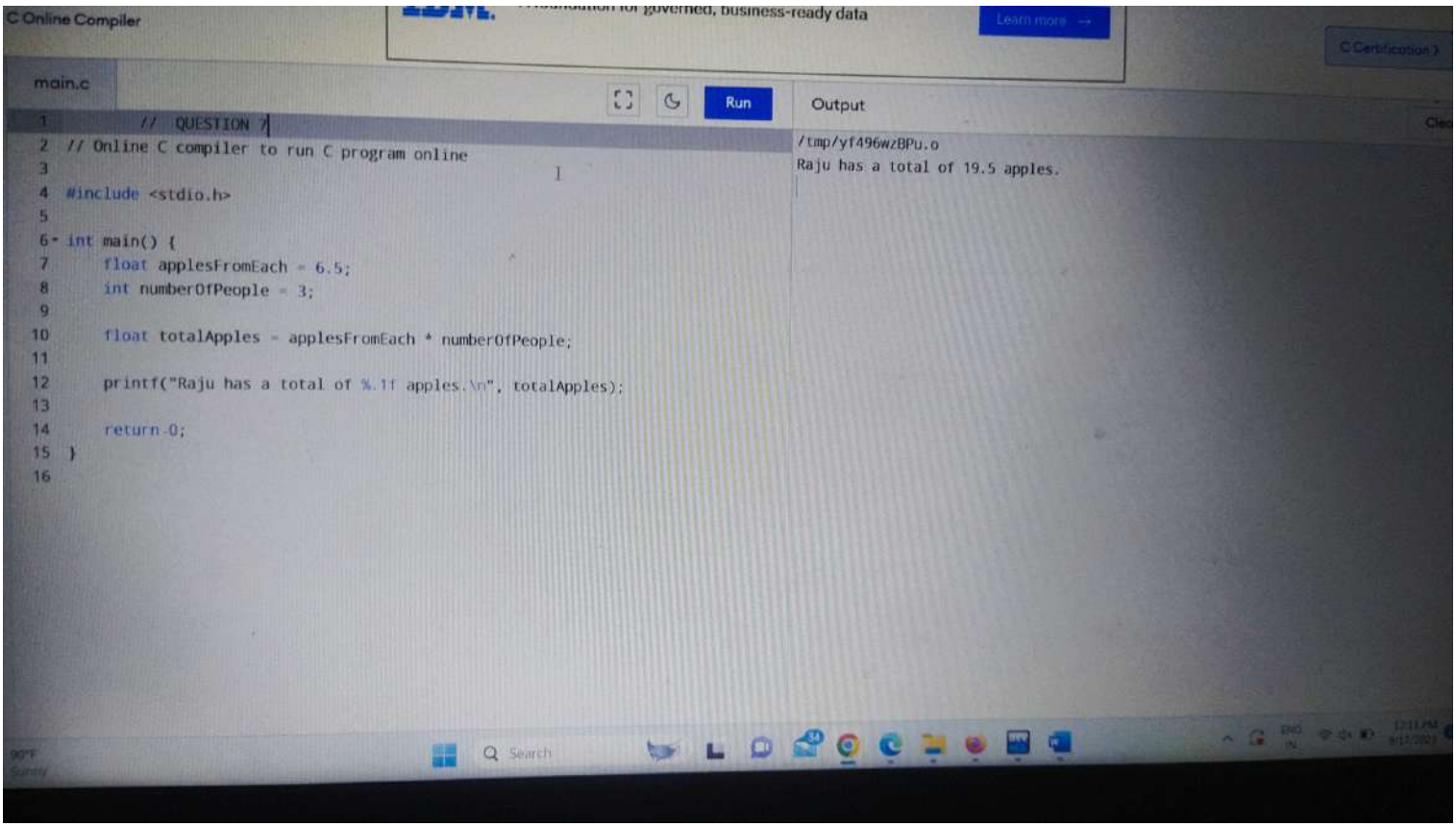
Run
Output
Clear
// QUESTION 5
// Online C compiler to run C program online
#include <stdio.h>
int main(){
int inputInteger;
char inputCharacter;
float inputFloat;
printf("Enter Integer,Character and Float number\n");
scanf("%d %c %f", &inputInteger, &inputCharacter,
&inputFloat);
printf("\nInteger you entered is : %d", inputInteger);
printf("\nCharacter you entered is : %c", inputCharacter);
printf("\nFloating point number you entered is : %f",
inputFloat);
return 0;
}
/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


main.c
Run
Output
// QUESTION 6
// Online C compiler to run C program online
#include <stdio.h>
int main() {
float cost = 172.53;
printf("The sales total is: $%.2f\n", cost);
return 0;
}
/tmp/yf496wzBPu.o
The sales total is: $172.53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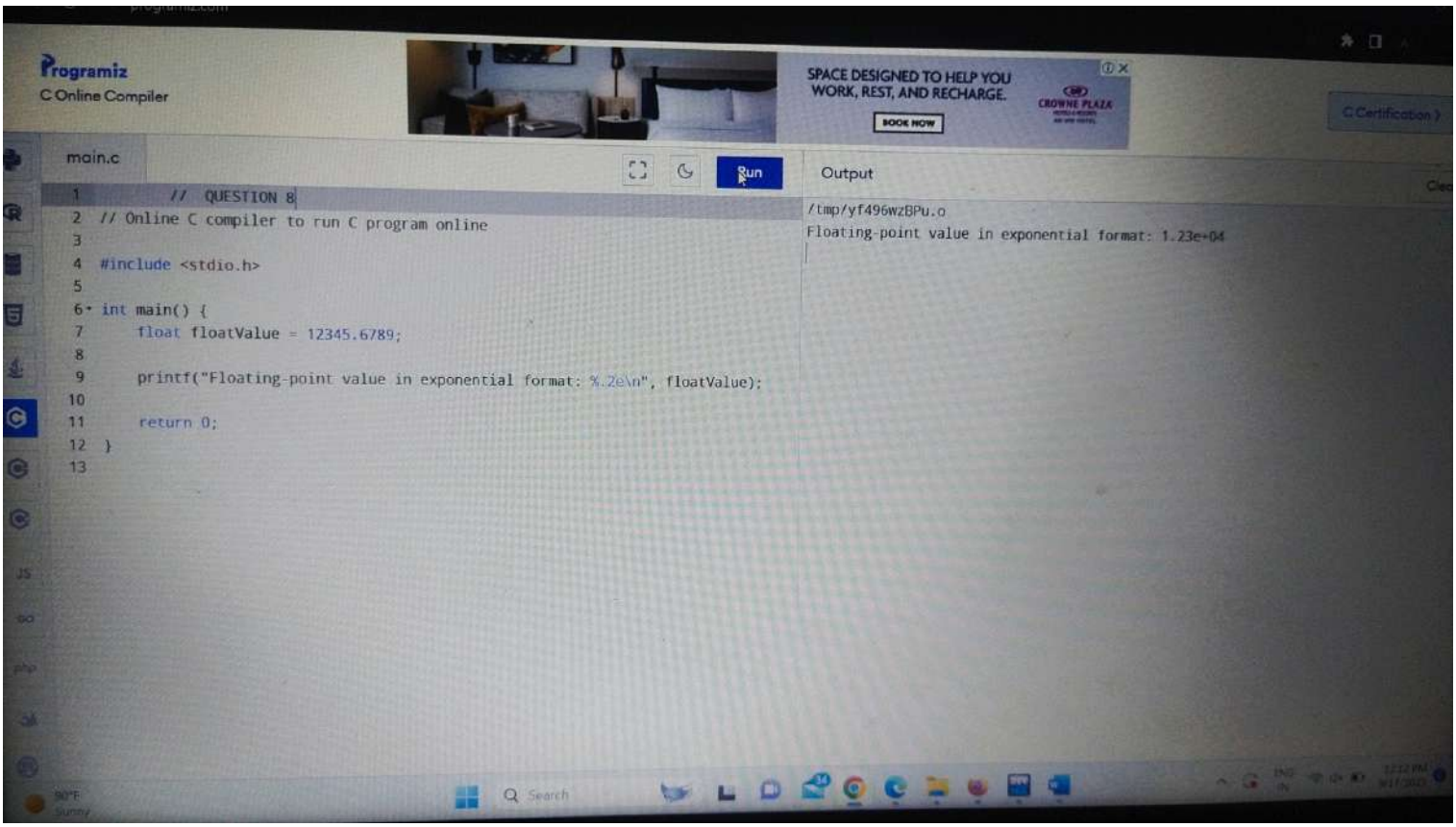
Run
Output
// QUESTION 7
// Online C compiler to run C program online
#include <stdio.h>
int main() {
float applesFromEach = 6.5;
int numberOfPeople = 3;
float totalApples = applesFromEach * numberOfPeople;
printf("Raju has a total of %.1f apples.\n", totalApples);
return 0;
}
/tmp/yf496wzBPu.o
Raju has a total of 19.5 apples.
Search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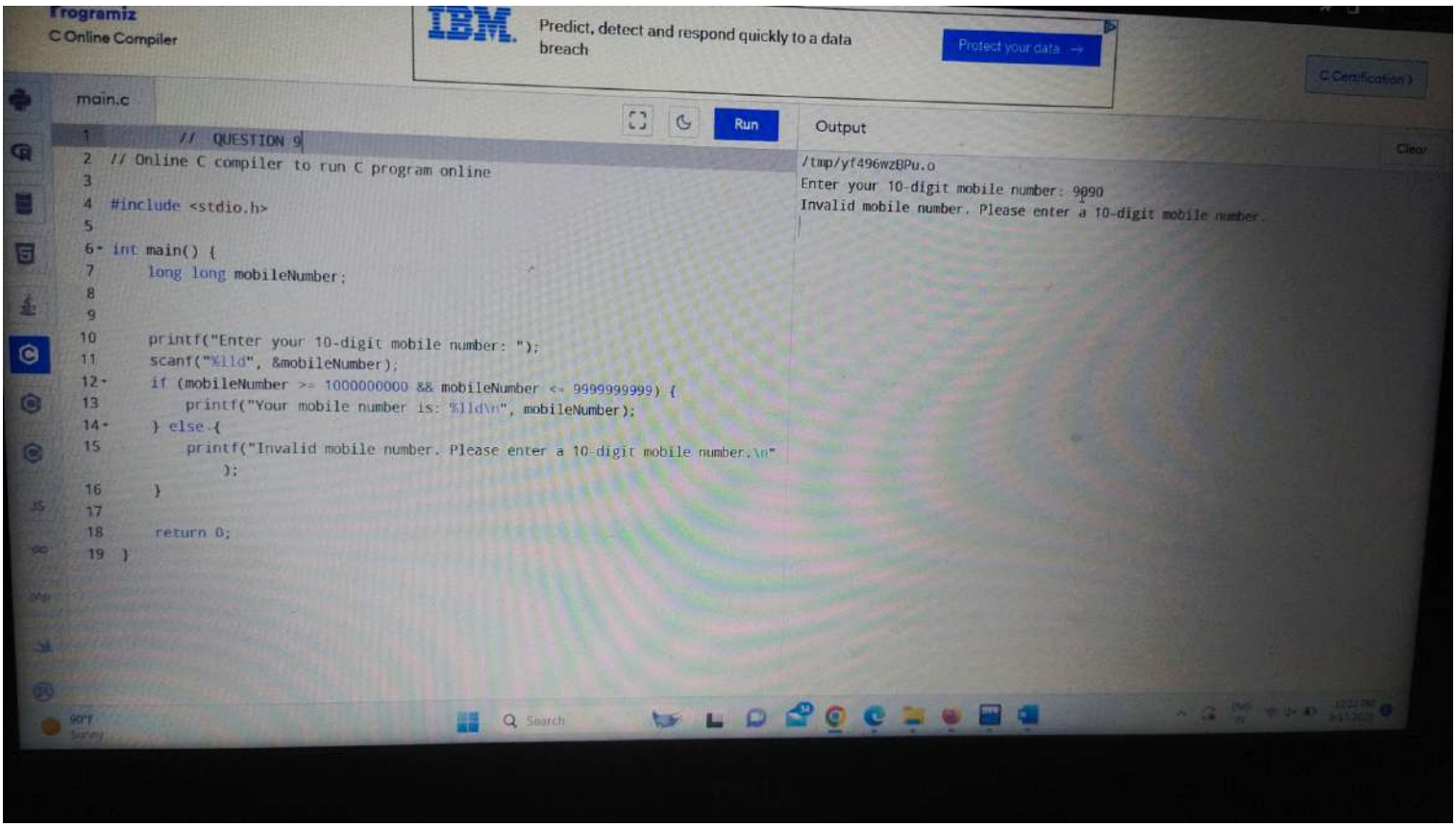
// QUESTION 8
// Online C compiler to run C program online
#include <stdio.h>
int main() {
float floatValue = 12345.6789;
printf("Floating-point value in exponential format: %.2e\n", floatValue);
return 0;
}
/tmp/yf496wzBPu.o
Floating-point value in exponential format: 1.23e+04
Search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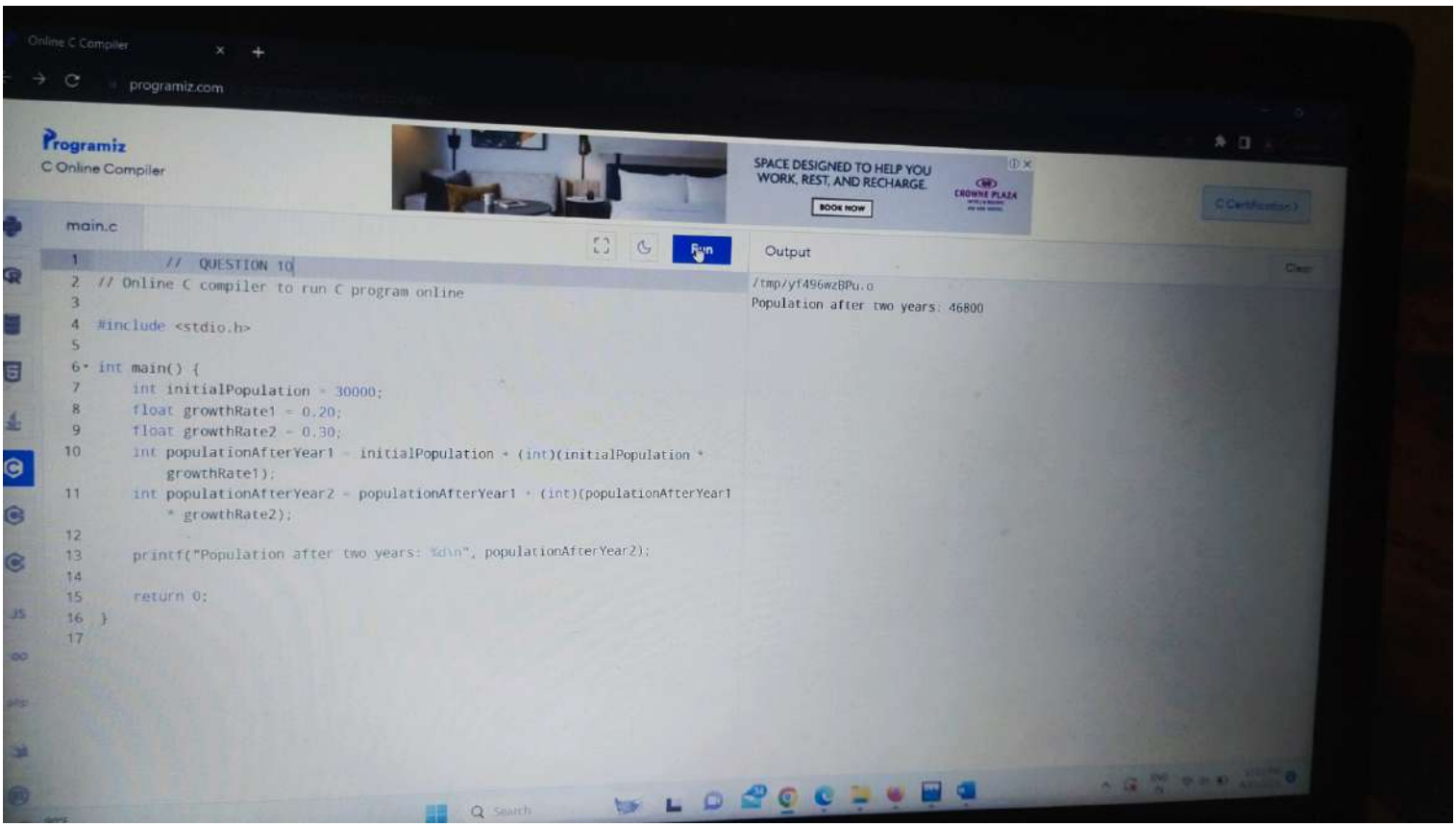
// QUESTION 9
// Online C compiler to run C program online
#include <stdio.h>
int main() {
long long mobileNumber;
printf("Enter your 10-digit mobile number: ");
scanf("%lld", &mobileNumber);
if (mobileNumber >= 1000000000 && mobileNumber <= 9999999999) {
printf("Your mobile number is: %lld\n", mobileNumber);
} else {
printf("Invalid mobile number. Please enter a 10-digit mobile number.\n"
);
}
return 0;
}
/tmp/yf496wzBPu.o
Enter your 10-digit mobile number: 9090
Invalid mobile number. Please enter a 10-digit mobile number.
Search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Run
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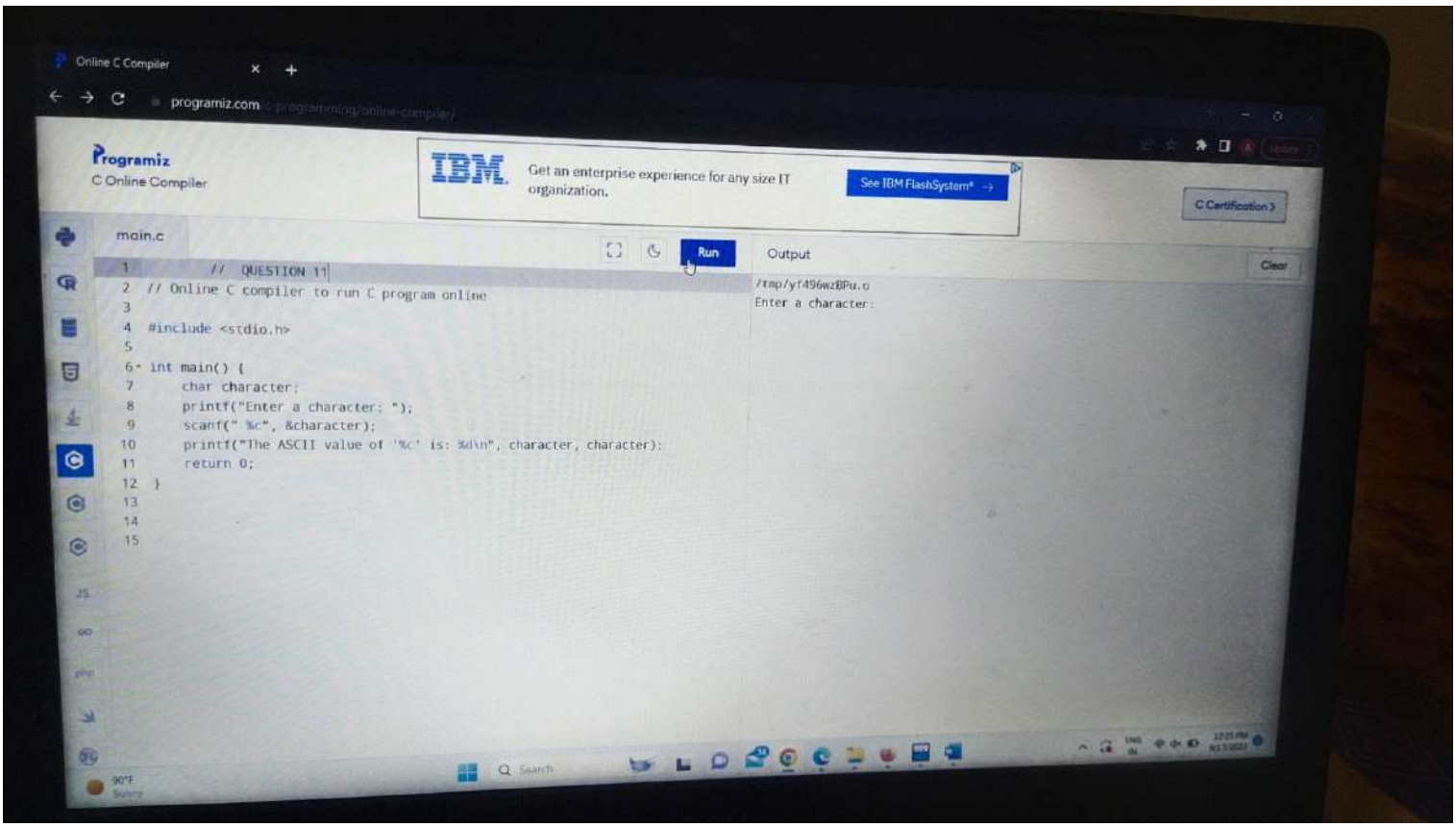
// QUESTION 10
// Online C compiler to run C program online
#include <stdio.h>
int main() {
int initialPopulation = 30000;
float growthRate1 = 0.20;
float growthRate2 = 0.30;
int populationAfterYear1 = initialPopulation + (int)(initialPopulation * growthRate1);
int populationAfterYear2 = populationAfterYear1 + (int)(populationAfterYear1 * growthRate2);
printf("Population after two years: %d\n", populationAfterYear2);
return 0;
}
/tmp/yf496wzBPu.o
Population after two years: 46800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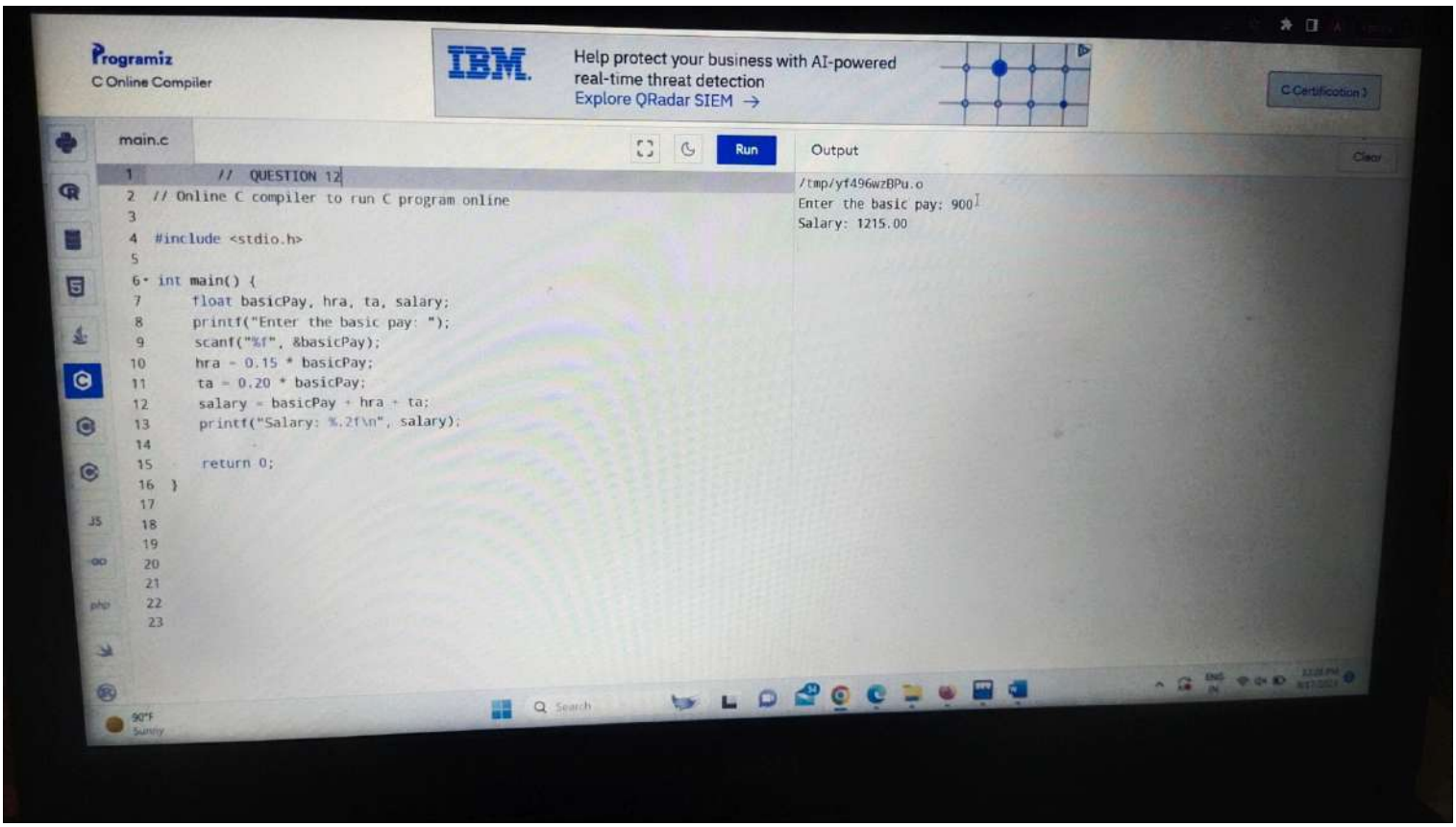
// QUESTION 11
// Online C compiler to run C program online
#include <stdio.h>
int main() {
char character;
printf("Enter a character: ");
scanf(" %c", &character);
printf("The ASCII value of '%c' is: %d\n", character, character);
return 0;
}
/tmp/yf496wzBPu.o
Enter a character: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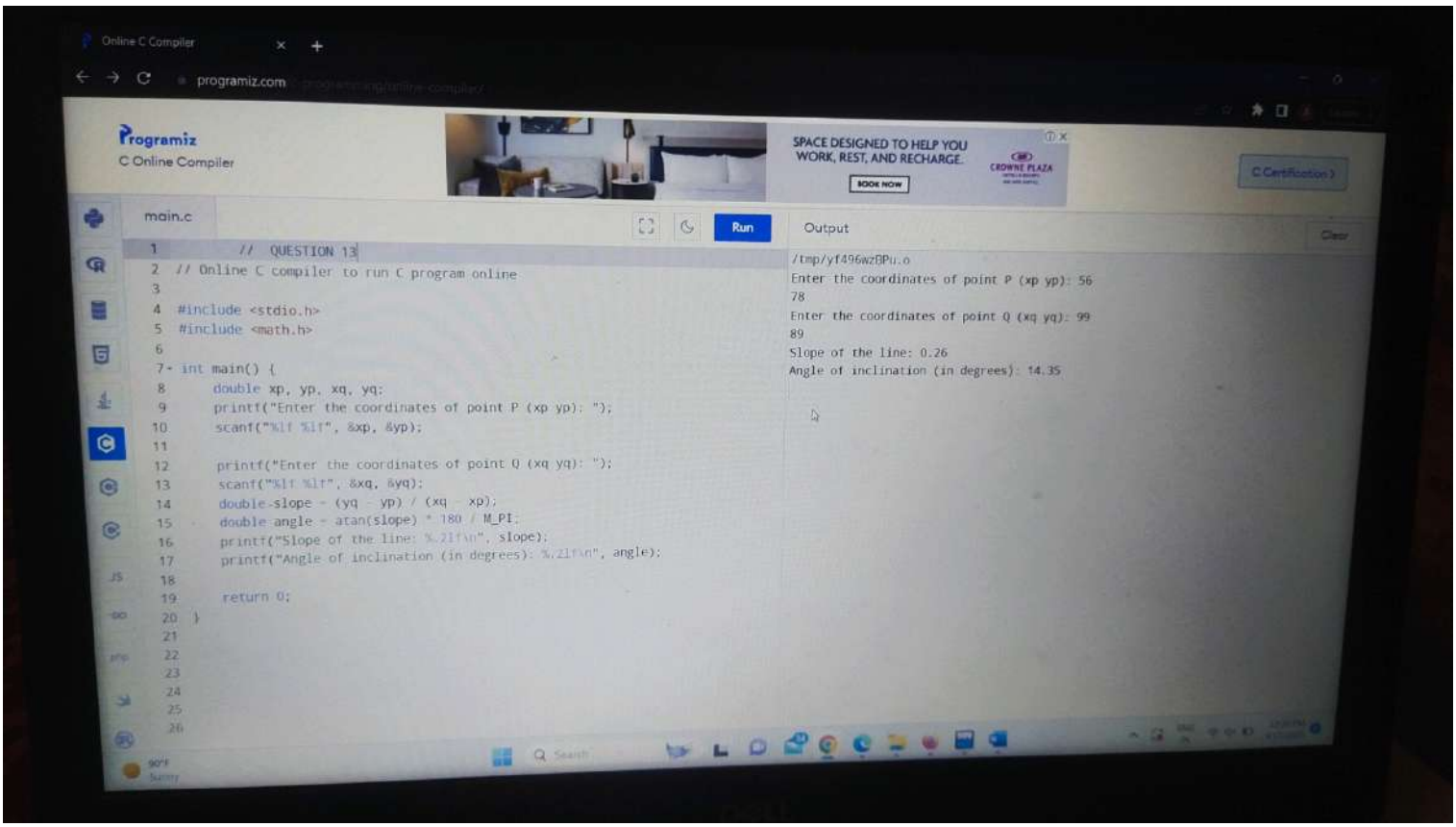
// QUESTION 12
// Online C compiler to run C program online
#include <stdio.h>
int main() {
float basicPay, hra, ta, salary;
printf("Enter the basic pay: ");
scanf("%f", &basicPay);
hra = 0.15 * basicPay;
ta = 0.20 * basicPay;
salary = basicPay + hra + ta;
printf("Salary: %.2f\n", salary);
return 0;
}
/tmp/yf496wzBPu.o
Enter the basic pay: 900
Salary: 1215.00
Search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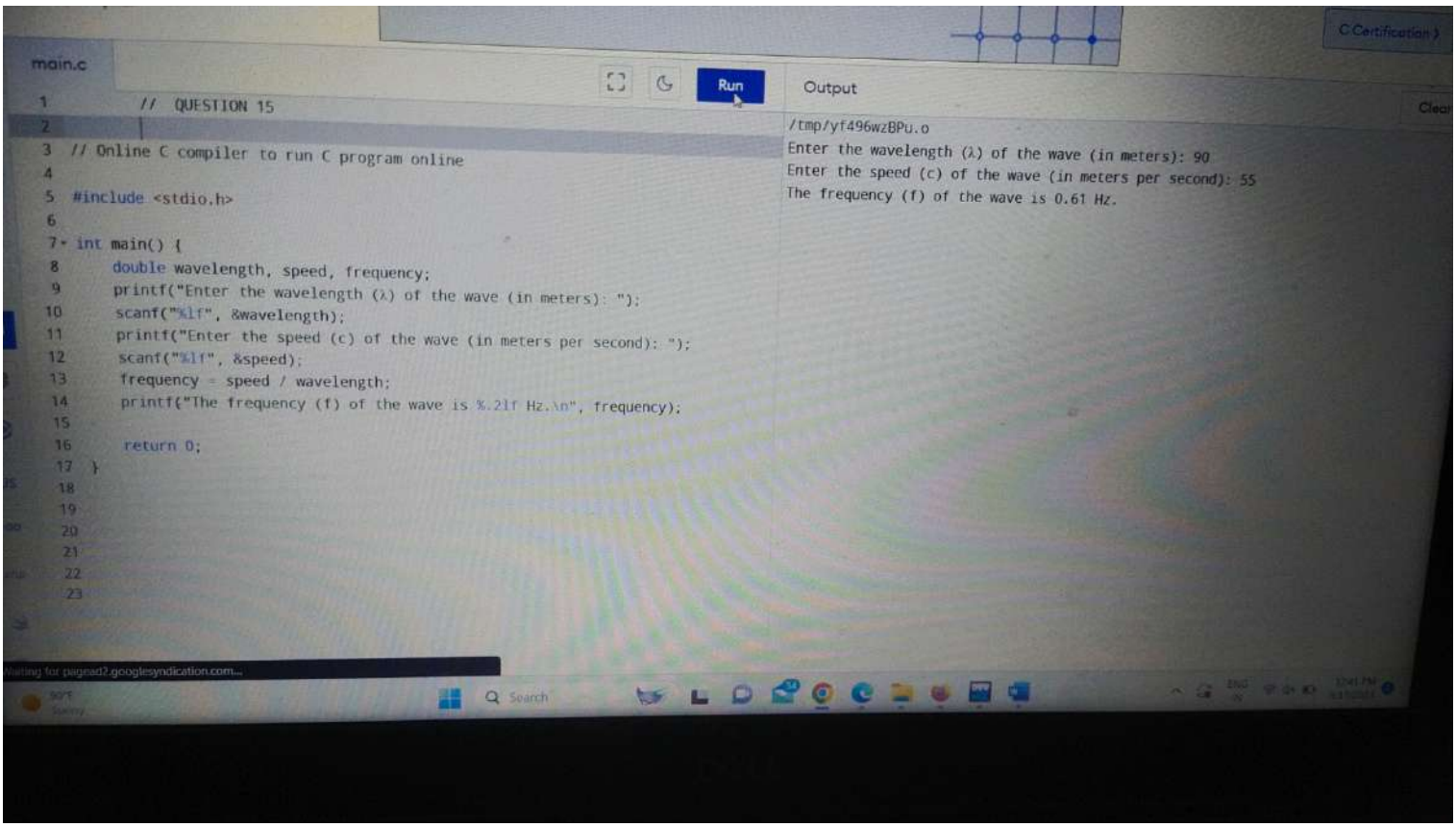
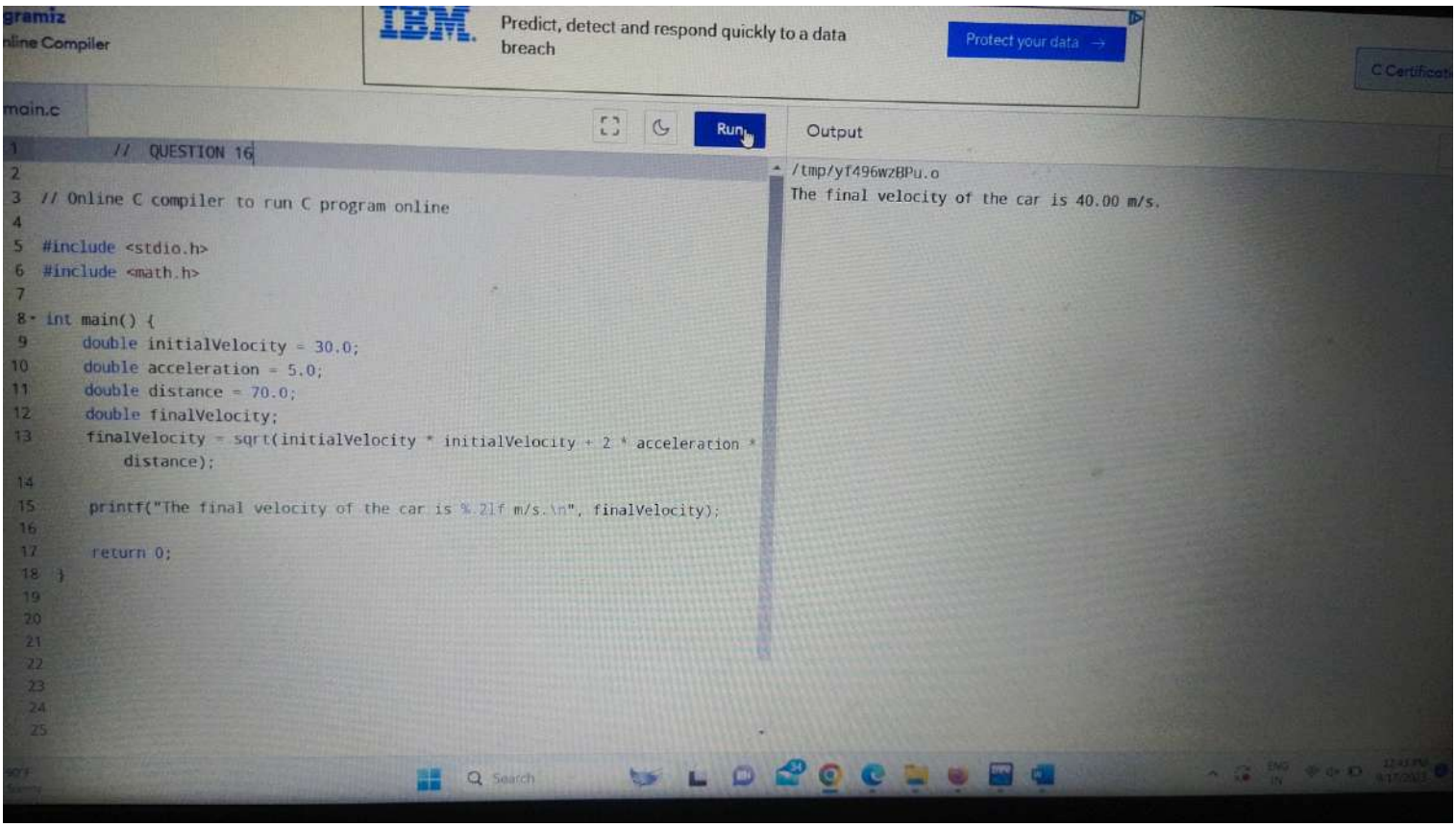
// QUESTION 13
// Online C compiler to run C program online
#include <stdio.h>
#include <math.h>
int main() {
double xp, yp, xq, yq;
printf("Enter the coordinates of point P (xp yp): ");
scanf("%lf %lf", &xp, &yp);
printf("Enter the coordinates of point Q (xq yq): ");
scanf("%lf %lf", &xq, &yq);
double slope = (yq - yp) / (xq - xp);
double angle = atan(slope) * 180 / M_PI;
printf("Slope of the line: %.2lf\n", slope);
printf("Angle of inclination (in degrees): %.2lf\n", angle);
return 0;
}
/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


main.c
Run
Output
// QUESTION 15
// Online C compiler to run C program online
#include <stdio.h>
int main() {
double wavelength, speed, frequency;
printf("Enter the wavelength (λ) of the wave (in meters): ");
scanf("%lf", &wavelength);
printf("Enter the speed (c) of the wave (in meters per second): ");
scanf("%lf", &speed);
frequency = speed / wavelength;
printf("The frequency (f) of the wave is %.2lf Hz.\n", frequency);
return 0;
}
/tmp/yf496wzBPu.o
Enter the wavelength (λ) 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.
Search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main.c
Run
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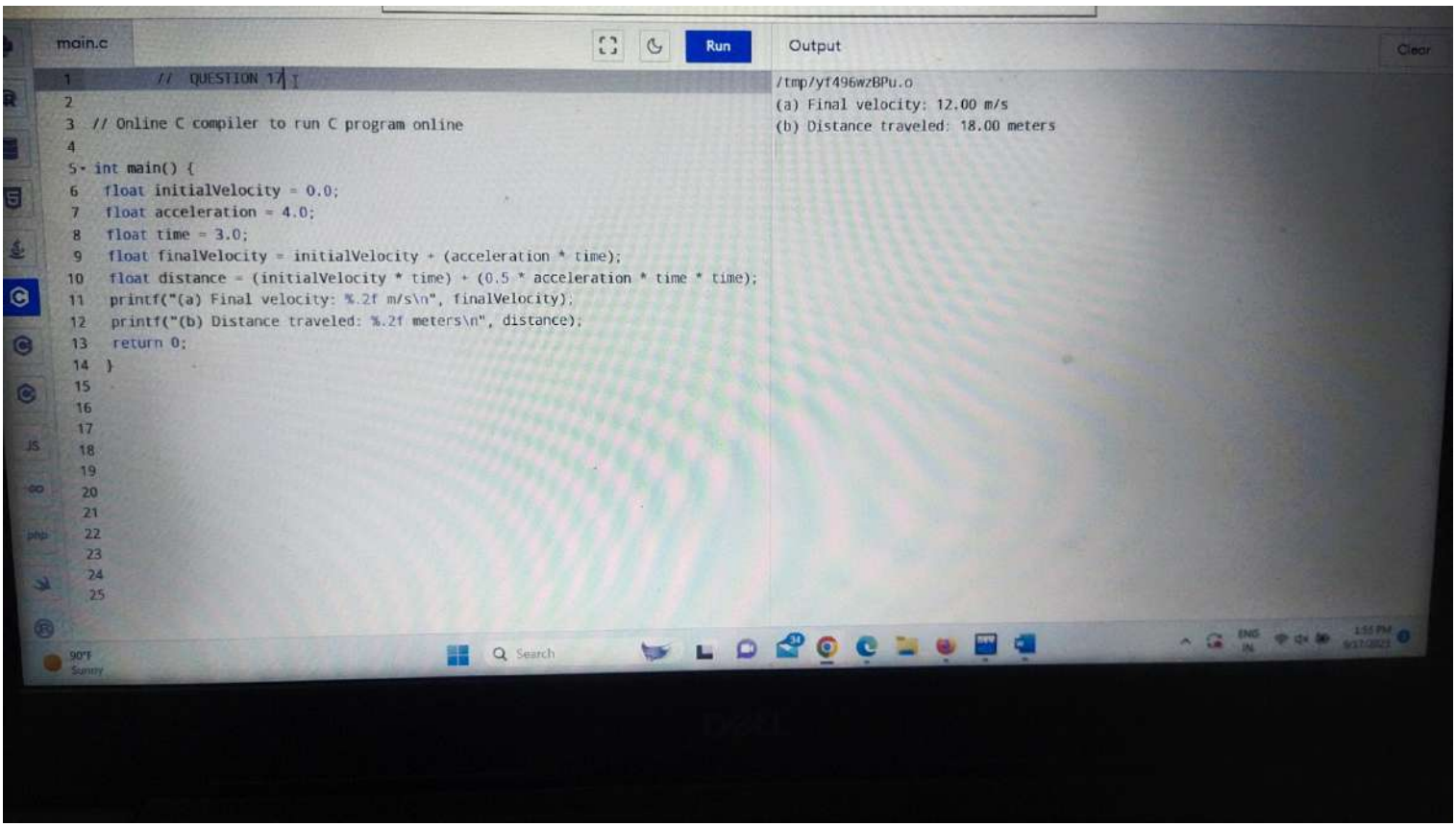
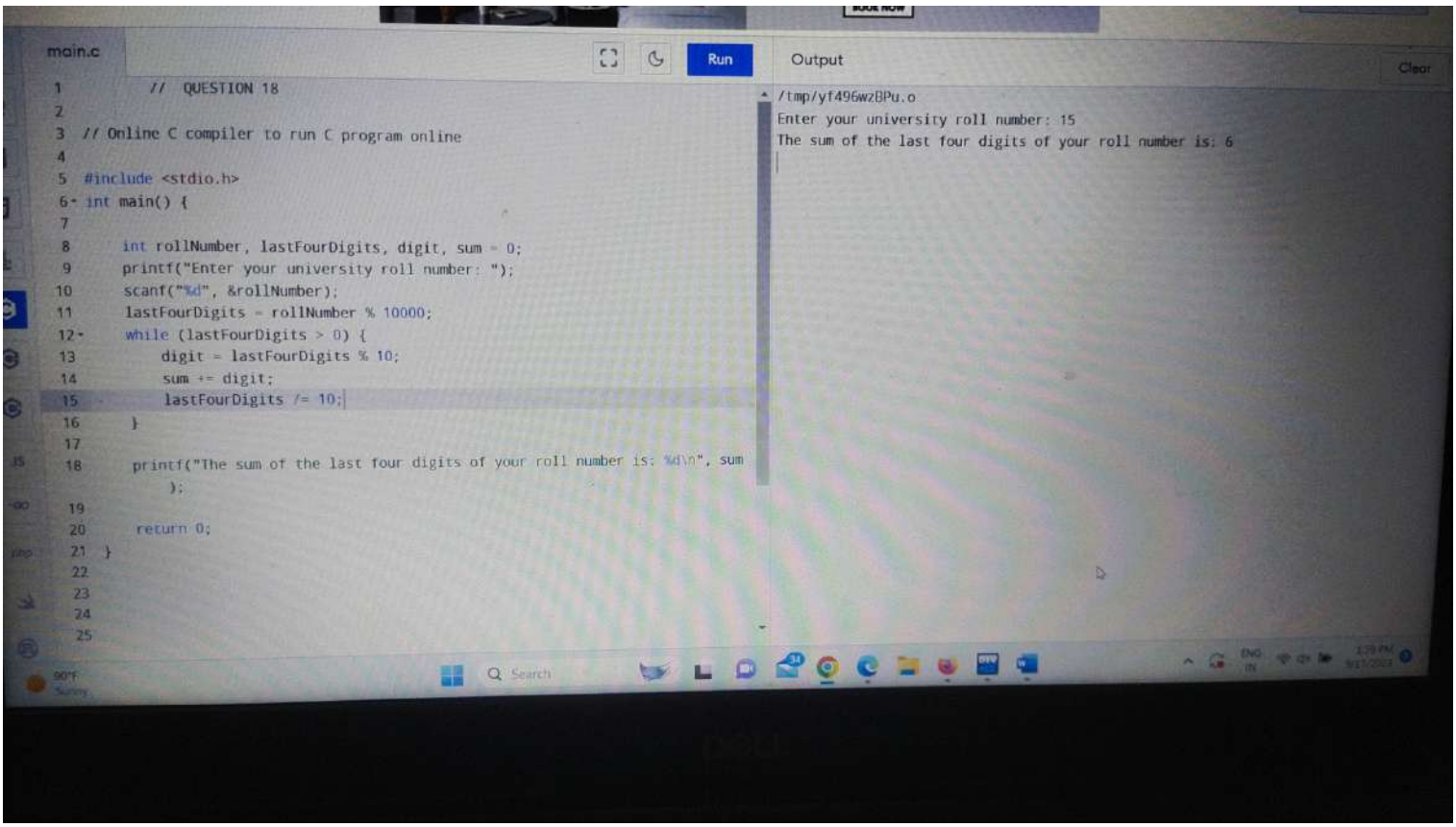
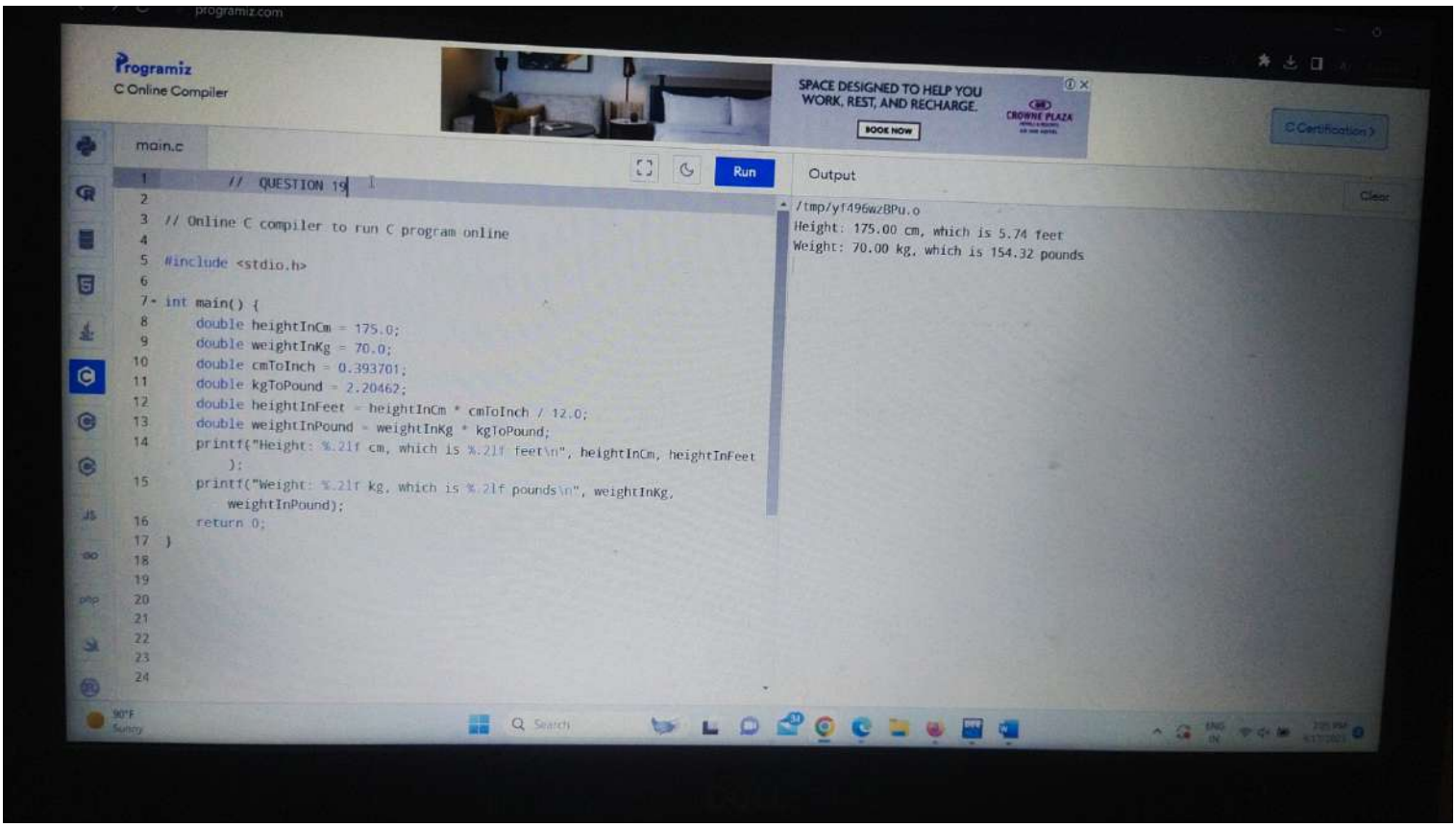
// QUESTION 16
// Online C compiler to run C program online
#include <stdio.h>
#include <math.h>
int main() {
double initialVelocity = 30.0;
double acceleration = 5.0;
double distance = 70.0;
double finalVelocity;
finalVelocity = sqrt(initialVelocity * initialVelocity + 2 * acceleration * distance);
printf("The final velocity of the car is %.2lf m/s.\n", finalVelocity);
return 0;
}
/tmp/yf496WzBPu.o
The final velocity of the car is 40.00 m/s.
Search


main.c
Run
Output
Clear
// QUESTION 17
// Online C compiler to run C program online
int main() {
float initialVelocity = 0.0;
float acceleration = 4.0;
float time = 3.0;
float finalVelocity = initialVelocity + (acceleration * time);
float distance = (initialVelocity * time) + (0.5 * acceleration * time * time);
printf("(a) Final velocity: %.2f m/s\n", finalVelocity);
printf("(b) Distance traveled: %.2f meters\n", distance);
return 0;
}
/tmp/yf496wzBPu.o
(a) Final velocity: 12.00 m/s
(b) Distance traveled: 18.00 meters
90°F
Sunny
Search


main.c
Run
Output
Clear
// QUESTION 18
// Online C compiler to run C program online
#include <stdio.h>
int main() {
int rollNumber, lastFourDigits, digit, sum = 0;
printf("Enter your university roll number: ");
scanf("%d", &rollNumber);
lastFourDigits = rollNumber % 10000;
while (lastFourDigits > 0) {
digit = lastFourDigits % 10;
sum += digit;
lastFourDigits /= 10;
}
printf("The sum of the last four digits of your roll number is: %d\n", sum
);
return 0;
}
/tmp/yf496wzBPu.o
Enter your university roll number: 15
The sum of the last four digits of your roll number is: 6
Search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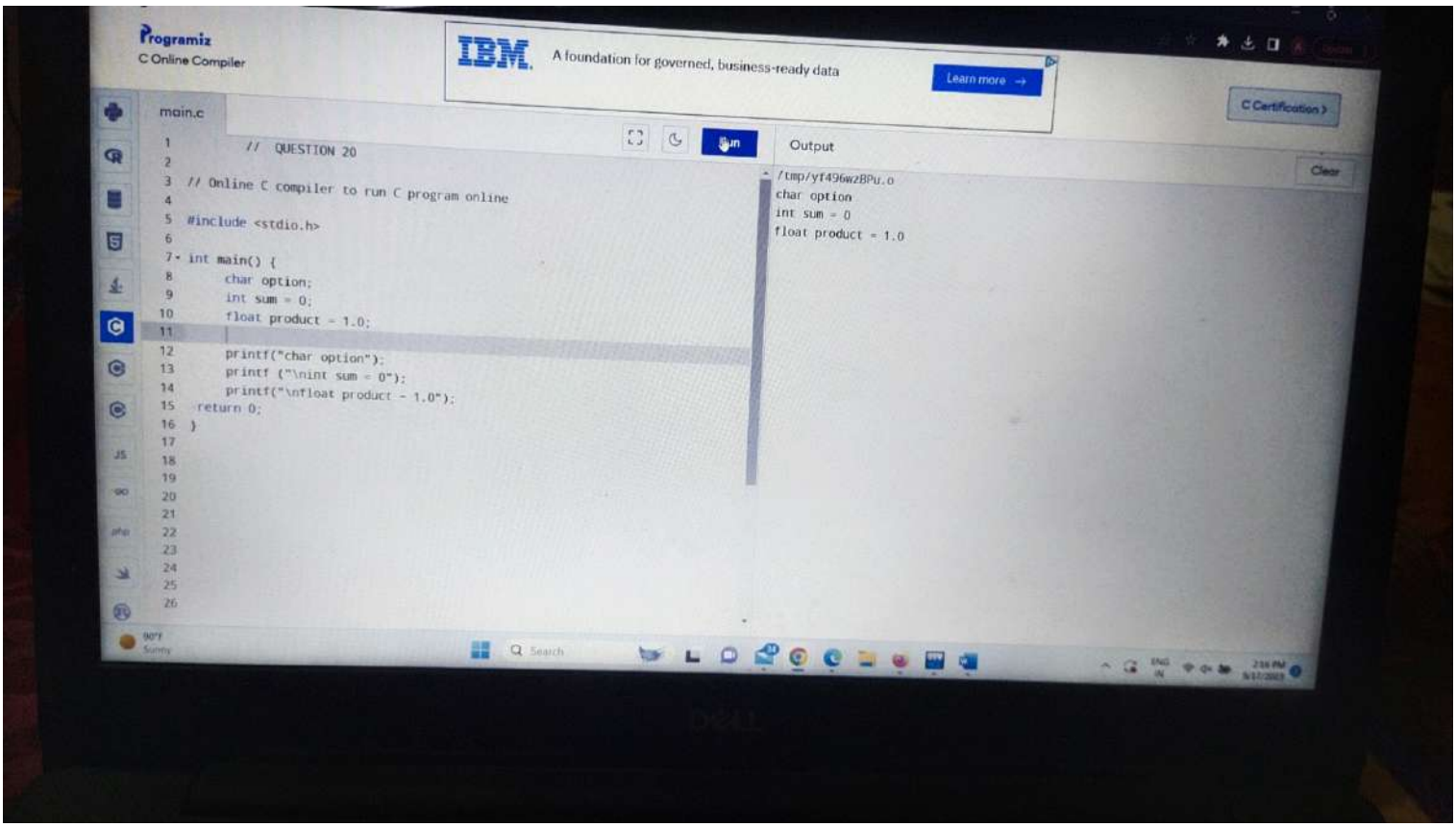
// QUESTION 19
// Online C compiler to run C program online
#include <stdio.h>
int main() {
double heightInCm = 175.0;
double weightInKg = 70.0;
double cmToInch = 0.393701;
double kgToPound = 2.20462;
double heightInFeet = heightInCm * cmToInch / 12.0;
double weightInPound = weightInKg * kgToPound;
printf("Height: %.2lf cm, which is %.2lf feet\n", heightInCm, heightInFeet
);
printf("Weight: %.2lf kg, which is %.2lf pounds\n", weightInKg,
weightInPound);
return 0;
}
/tmp/yf496wzBPu.o
Height: 175.00 cm, which is 5.74 feet
Weight: 70.00 kg, which is 154.32 pounds
90°F
Sunny
Search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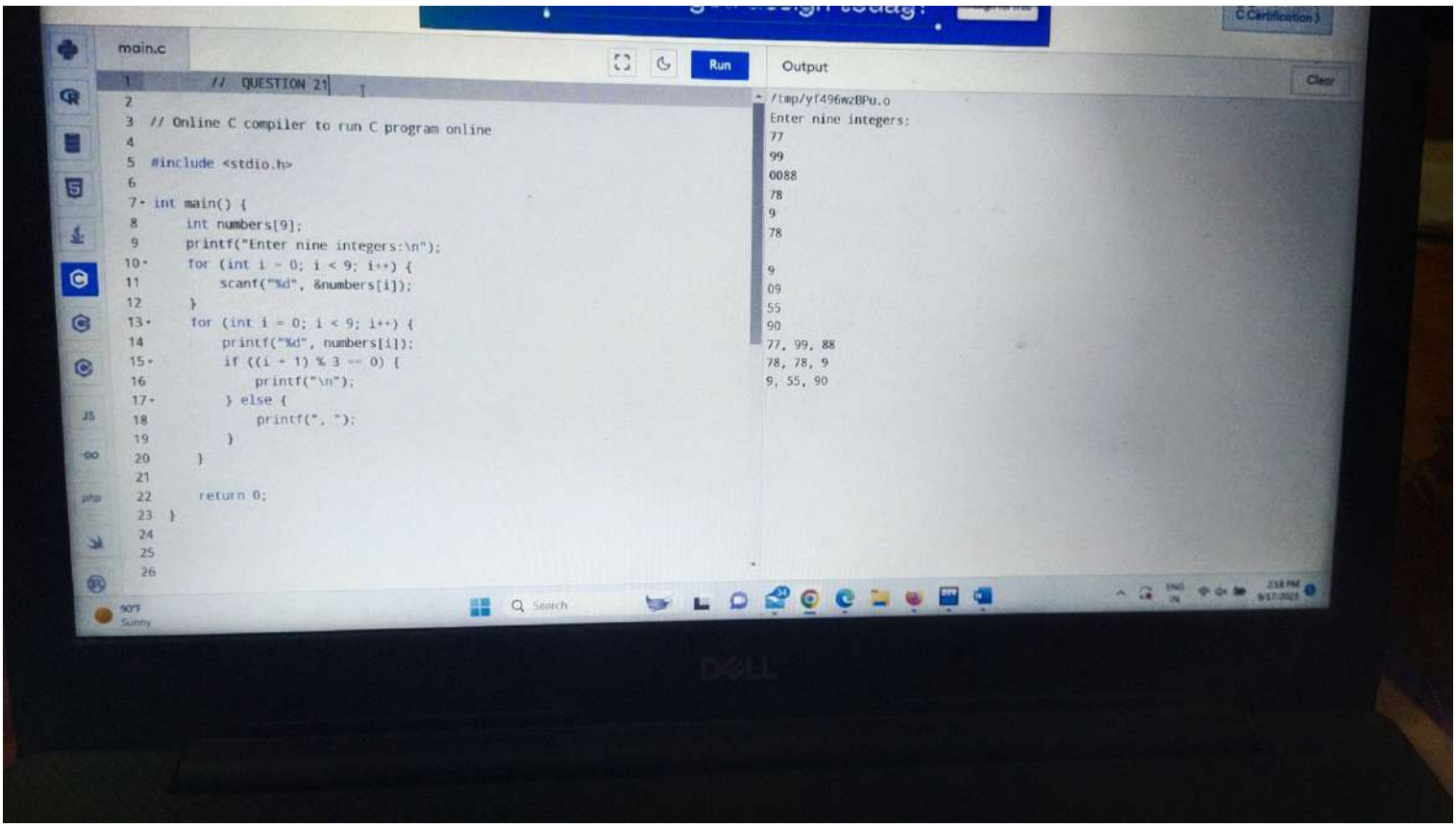
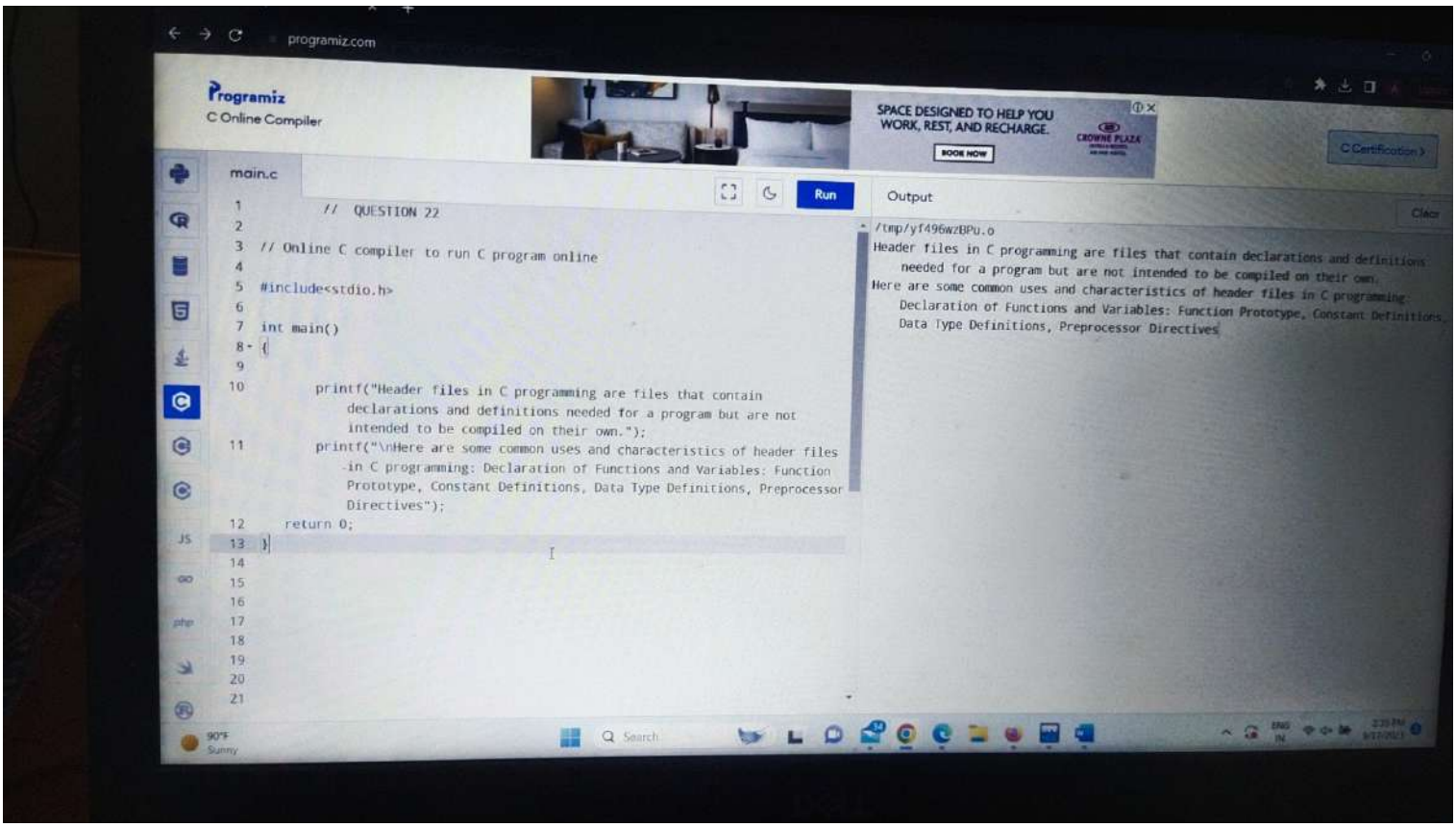
main.c
Run
Output
Clear
// QUESTION 20
// Online C compiler to run C program online
#include <stdio.h>
int main() {
char option;
int sum = 0;
float product = 1.0;
printf("char option");
printf ("\nint sum = 0");
printf("\nfloat product = 1.0");
return 0;
}
/tmp/Yf496wzBPu.o
char option
int sum = 0
float product = 1.0
Search


main.c
Run
Output
Clear
// QUESTION 21
// Online C compiler to run C program online
#include <stdio.h>
int main() {
int numbers[9];
printf("Enter nine integers:\n");
for (int i = 0; i < 9; i++) {
scanf("%d", &numbers[i]);
}
for (int i = 0; i < 9; i++) {
printf("%d", numbers[i]);
if ((i + 1) % 3 == 0) {
printf("\n");
} else {
printf(", ");
}
}
return 0;
}
/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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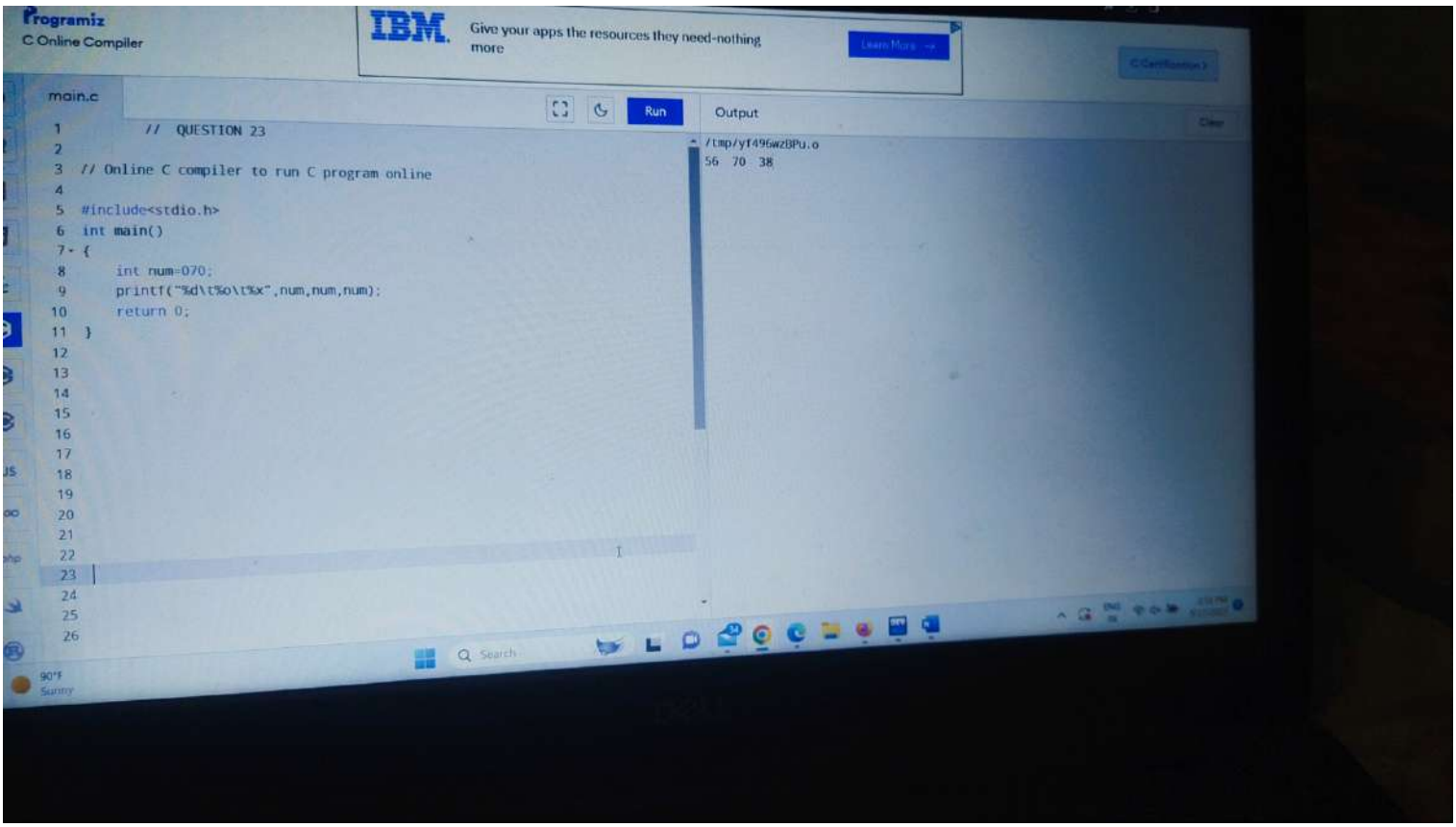
Output
Clear
// QUESTION 22
// Online C compiler to run C program online
#include<stdio.h>
int main()
{
printf("Header files in C programming are files that contain declarations and definitions needed for a program but are not intended to be compiled on their own.");
printf("\nHere are some common uses and characteristics of header files in C programming: Declaration of Functions and Variables: Function Prototype, Constant Definitions, Data Type Definitions, Preprocessor Directives");
return 0;
}
/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
90°F
Sunny
Search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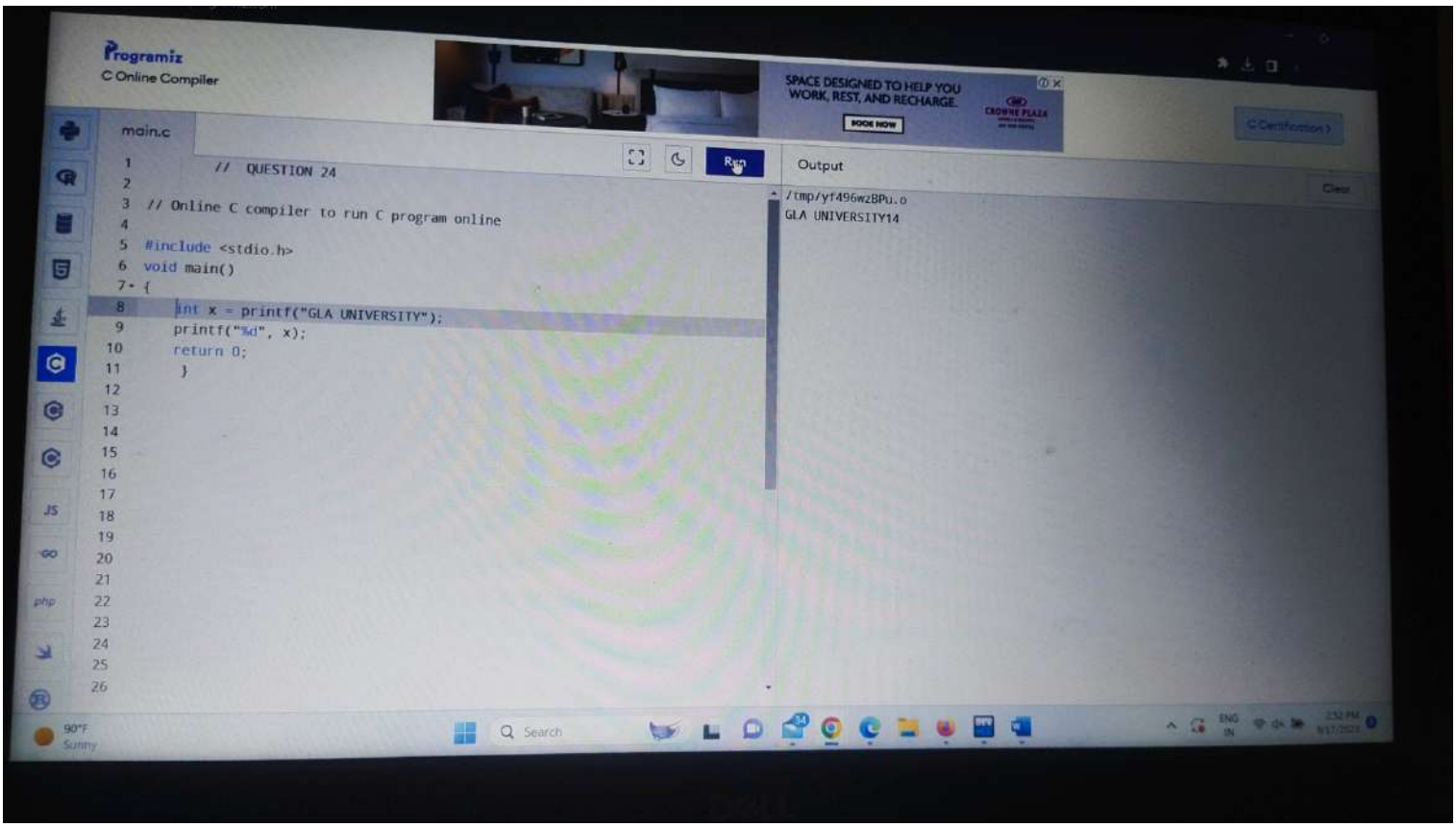
// QUESTION 23
// Online C compiler to run C program online
#include<stdio.h>
int main()
{
int num=070;
printf("%d\t%o\t%x",num,num,num);
return 0;
}
/tmp/yf496wzBPu.o
56 70 38
Search
90°F
Sunny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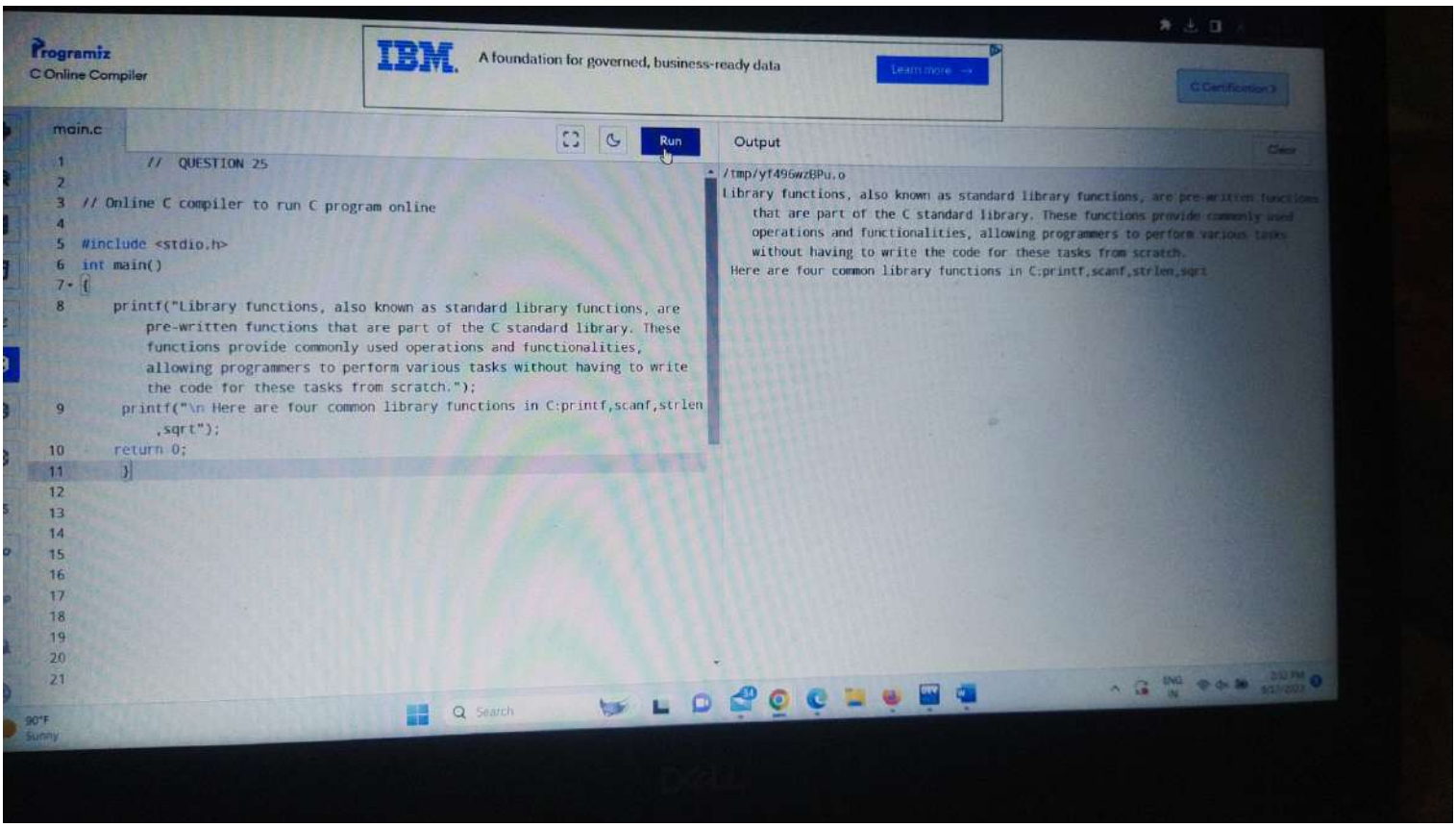
main.c
// QUESTION 24
// Online C compiler to run C program online
#include <stdio.h>
void main()
{
int x = printf("GLA UNIVERSITY");
printf("%d", x);
return 0;
}
Run
Output
Clear
/tmp/yf496w2BPu.o
GLA UNIVERSITY14
90°F
Sunny
Search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main.c
Run
Output
Clear
// QUESTION 25
// Online C compiler to run C program online
#include <stdio.h>
int main()
{
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.");
printf("\n Here are four common library functions in C:printf,scanf,strlen,sqrt");
return 0;
}
/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
Search
90°F
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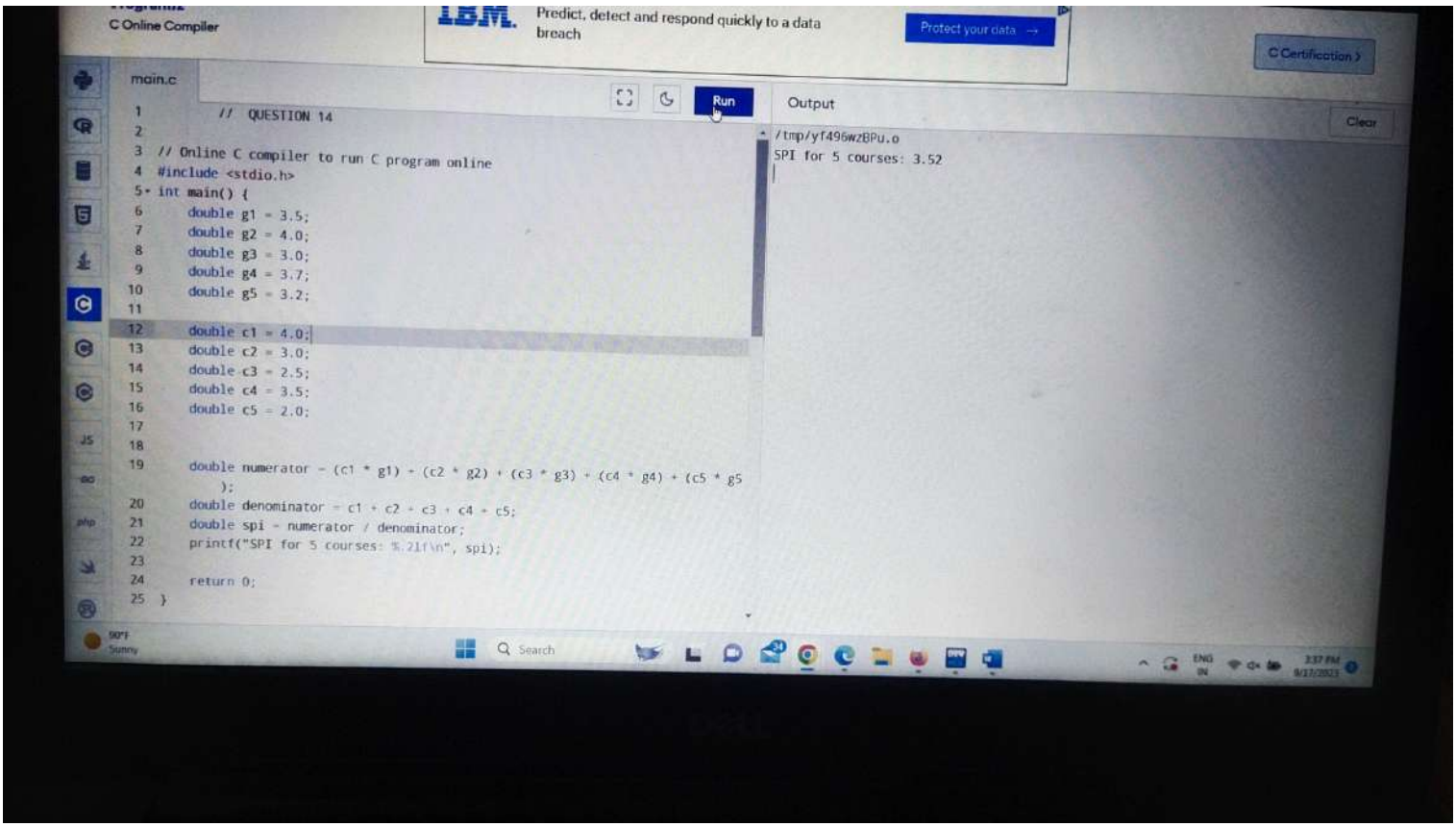
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main.c
Run
Output
Clear
// QUESTION 14
// Online C compiler to run C program online
#include <stdio.h>
int main() {
double g1 = 3.5;
double g2 = 4.0;
double g3 = 3.0;
double g4 = 3.7;
double g5 = 3.2;
double c1 = 4.0;
double c2 = 3.0;
double c3 = 2.5;
double c4 = 3.5;
double c5 = 2.0;
double numerator = (c1 * g1) + (c2 * g2) + (c3 * g3) + (c4 * g4) + (c5 * g5);
double denominator = c1 + c2 + c3 + c4 + c5;
double spi = numerator / denominator;
printf("SPI for 5 courses: %.2lf\n", spi);
return 0;
}
/tmp/yf496wzBPu.o
SPI for 5 courses: 3.52
90°F
Sunny
Search
ENG
IN
3:37 PM
9/17/2023