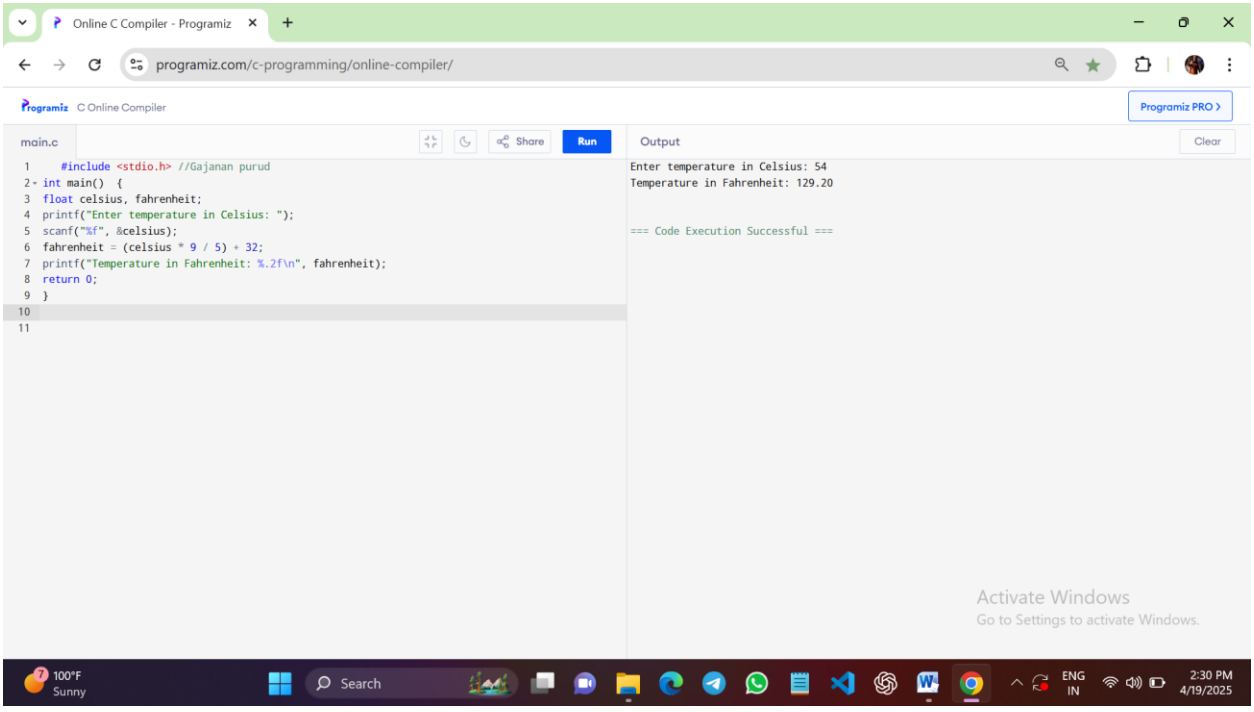
Name – Gajanan Purud

Assignment 1

1) Finding F from C (temp).

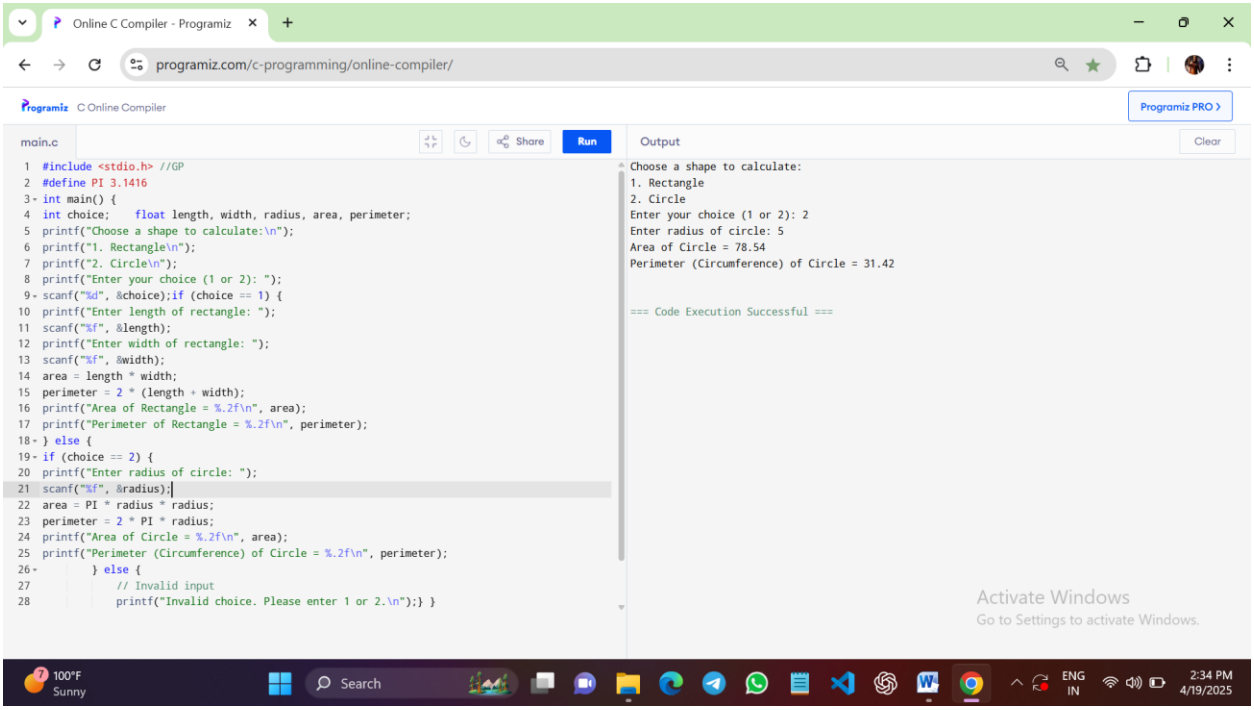
```
#include <stdio.h> //Gajanan purud
int main()  {
float celsius, fahrenheit;
printf("Enter temperature in Celsius: ");
scanf("%f", &celsius);
fahrenheit = (celsius * 9 / 5) + 32;
printf("Temperature in Fahrenheit: %.2f\n", fahrenheit);
return 0;
}
```



2) Finding area and perimeter of rectangle or circle.

```
#include <stdio.h> //GP
#define PI 3.1416
int main() {
int choice;    float length, width, radius, area, perimeter;
printf("Choose a shape to calculate:\n");
printf("1. Rectangle\n");
printf("2. Circle\n");
printf("Enter your choice (1 or 2): ");
scanf("%d", &choice);
if (choice == 1) {
printf("Enter length of rectangle: ");
scanf("%f", &length);
printf("Enter width of rectangle: ");
scanf("%f", &width);
area = length * width;
perimeter = 2 * (length + width);
printf("Area of Rectangle = %.2f\n", area);
printf("Perimeter of Rectangle = %.2f\n", perimeter);
} else {
if (choice == 2) {
printf("Enter radius of circle: ");
scanf("%f", &radius);
area = PI * radius * radius;
perimeter = 2 * PI * radius;
```

```
printf("Area of Circle = %.2f\n", area);
printf("Perimeter (Circumference) of Circle = %.2f\n", perimeter);
        } else {
            printf("Invalid choice. Please enter 1 or 2.\n");
        }
    }
    return 0;
}
```

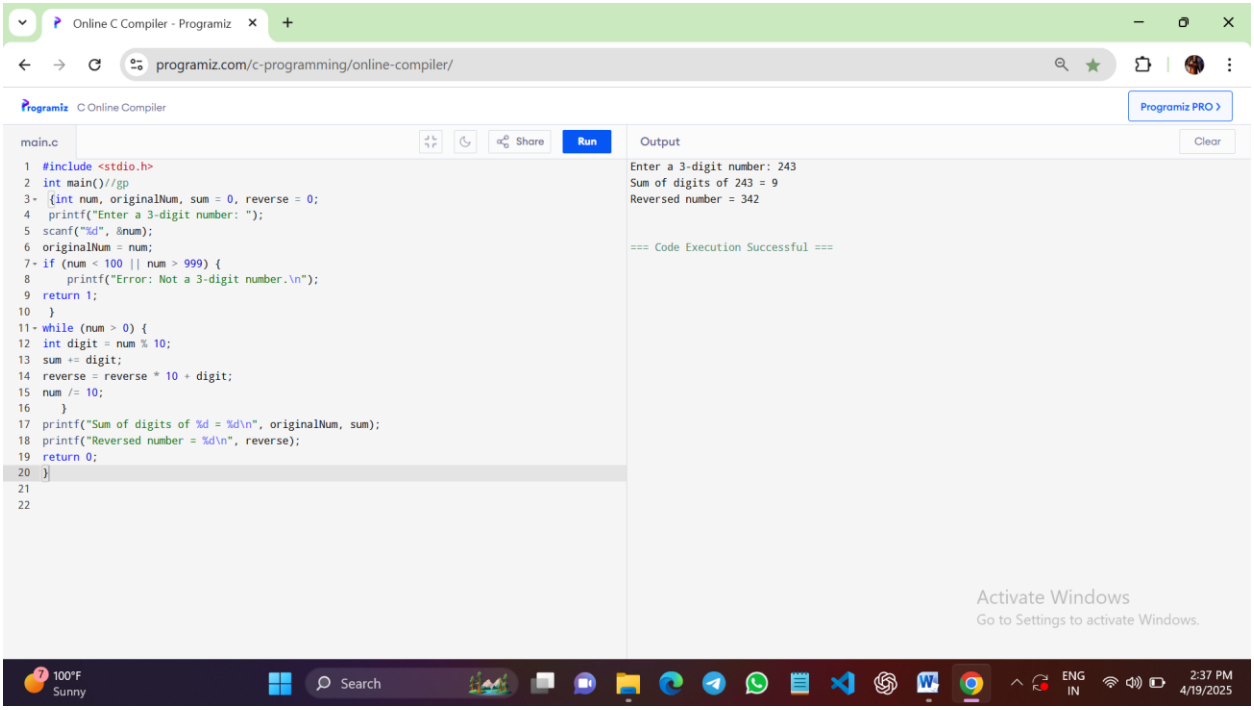


3) Accept a 3 digit number from user and find the sum of the digits and also reverse the number

```
#include <stdio.h>
int main()//gp
 {int num, originalNum, sum = 0, reverse = 0;
 printf("Enter a 3-digit number: ");
```

```
scanf("%d", &num);
originalNum = num;
if (num < 100 || num > 999) {
    printf("Error: Not a 3-digit number.\n");
return 1;
 }
while (num > 0) {
int digit = num % 10;
sum += digit;
reverse = reverse * 10 + digit;
num /= 10;
   }
printf("Sum of digits of %d = %d\n", originalNum, sum);
printf("Reversed number = %d\n", reverse);
return 0;
```

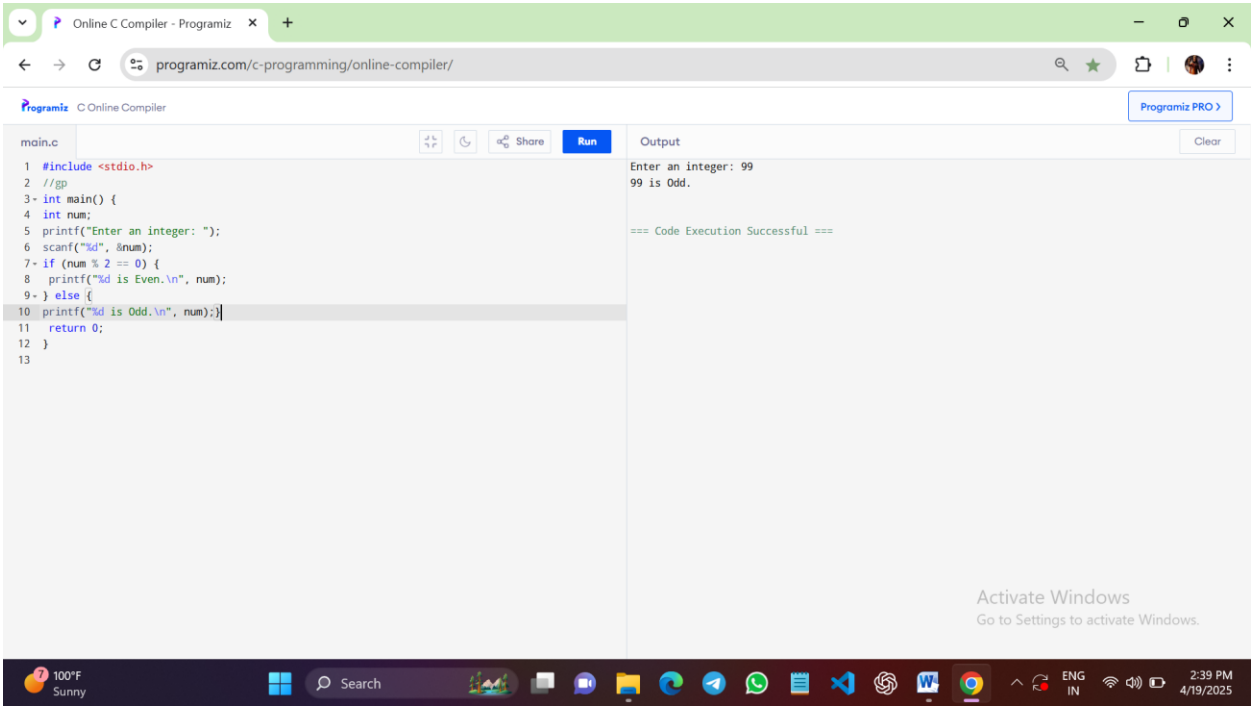
}



4) Check if the given number is even or odd.

```
#include <stdio.h>

//gp

int main() {

int num;

printf("Enter an integer: ");

scanf("%d", &num);

if (num % 2 == 0) {

 printf("%d is Even.\n", num);

} else {

printf("%d is Odd.\n", num);}

 return 0;
```

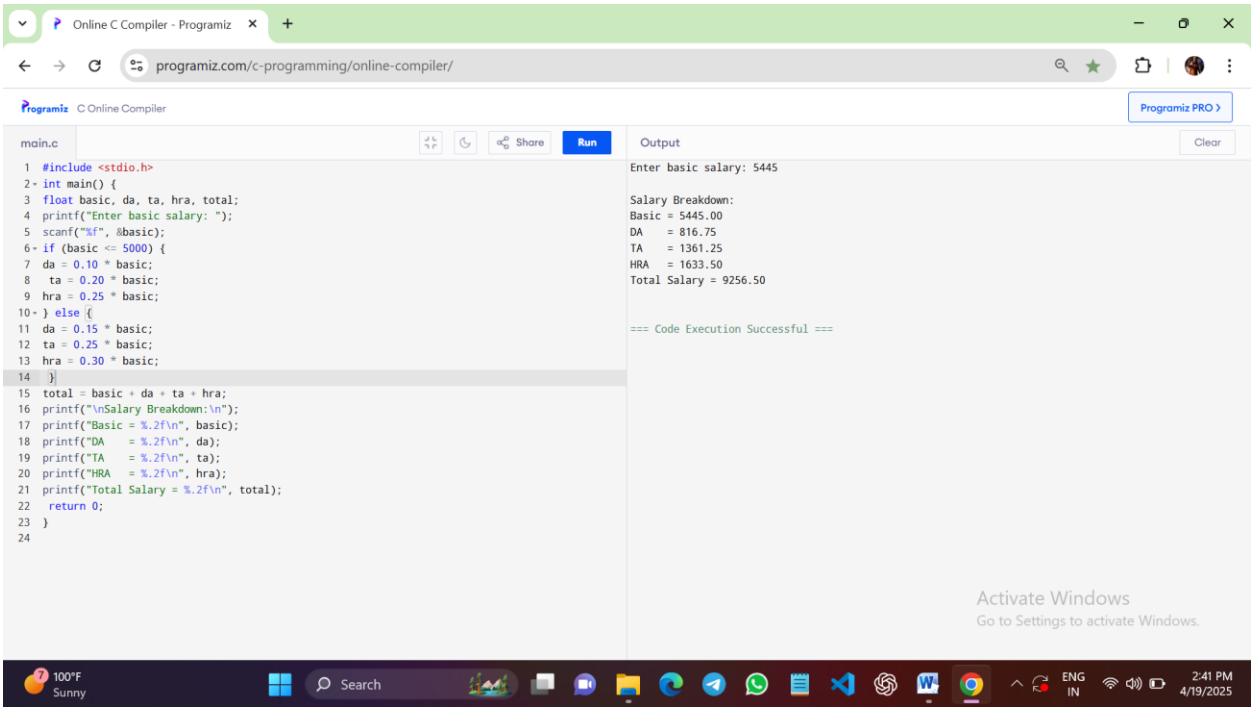
}



5} Calculating total salary based on basic. If basic <=5000 da, ta and hra will be 10%,20% and 25% respectively otherwise da, ta and hra will be 15%,25% and 30% respectively.

```
#include <stdio.h>

int main() {

float basic, da, ta, hra, total;

printf("Enter basic salary: ");

scanf("%f", &basic);

if (basic <= 5000) {

da = 0.10 * basic;

 ta = 0.20 * basic;

hra = 0.25 * basic;

} else {
```

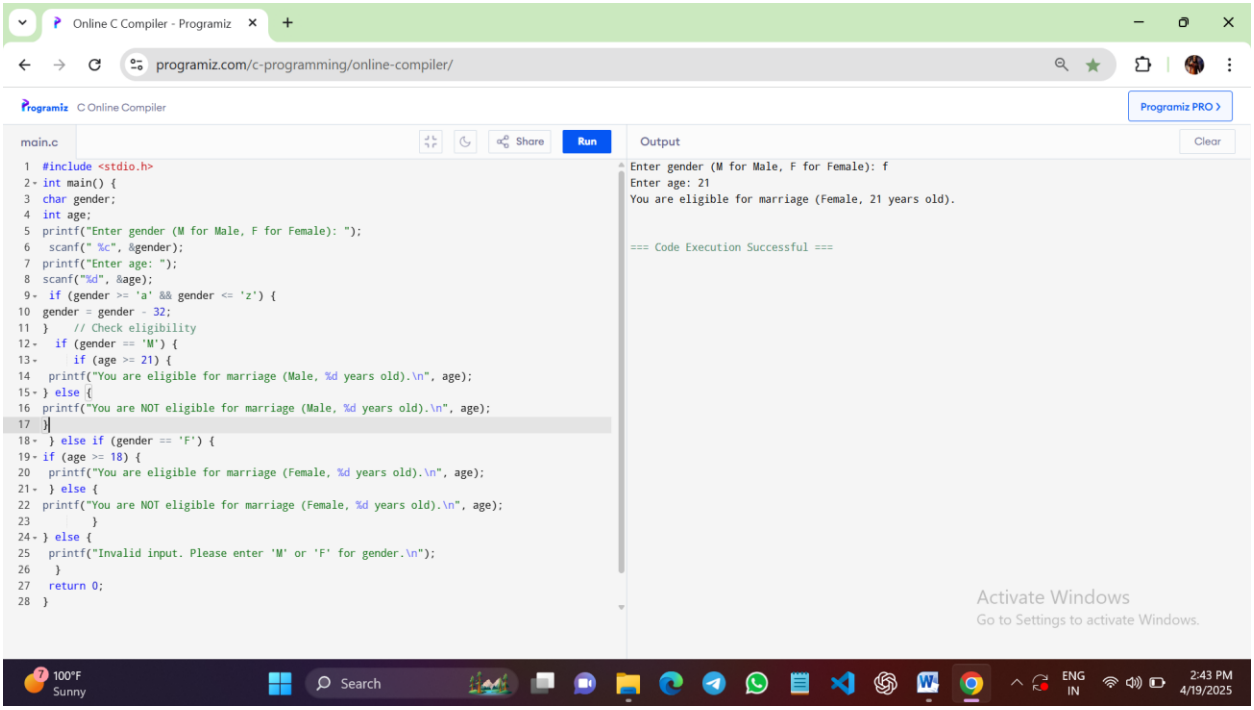
```
da = 0.15 * basic;

ta = 0.25 * basic;

hra = 0.30 * basic;

 }

total = basic + da + ta + hra;

printf("\nSalary Breakdown:\n");

printf("Basic = %.2f\n", basic);

printf("DA    = %.2f\n", da);

printf("TA    = %.2f\n", ta);

printf("HRA   = %.2f\n", hra);

printf("Total Salary = %.2f\n", total);

 return 0;

}
```



6) Write a program to check if person is eligible to marry or not (male age >=21 and female age>=18).

```
#include <stdio.h>

int main() {

char gender;

int age;

printf("Enter gender (M for Male, F for Female): ");

 scanf(" %c", &gender);

printf("Enter age: ");

scanf("%d", &age);

 if (gender >= 'a' && gender <= 'z') {

gender = gender - 32;

}    // Check eligibility

  if (gender == 'M') {

     if (age >= 21) {

 printf("You are eligible for marriage (Male, %d years old).\n", age);

} else {

printf("You are NOT eligible for marriage (Male, %d years old).\n", age);

}

 } else if (gender == 'F') {

if (age >= 18) {

 printf("You are eligible for marriage (Female, %d years old).\n", age);

 } else {

printf("You are NOT eligible for marriage (Female, %d years old).\n", age);

       }

} else {

 printf("Invalid input. Please enter 'M' or 'F' for gender.\n");
```

```
 }

 return 0;

}
```


Online C Compiler - Programiz
programiz.com/c-programming/online-compiler/
Programiz C Online Compiler
Programiz PRO
main.c
Share
Run
Output
Clear
#include <stdio.h>
int main() {
char gender;
int age;
printf("Enter gender (M for Male, F for Female): ");
scanf(" %c", &gender);
printf("Enter age: ");
scanf("%d", &age);
if (gender >= 'a' && gender <= 'z') {
gender = gender - 32;
} // Check eligibility
if (gender == 'M') {
if (age >= 21) {
printf("You are eligible for marriage (Male, %d years old).\n", age);
} else {
printf("You are NOT eligible for marriage (Male, %d years old).\n", age);
}
} else if (gender == 'F') {
if (age >= 18) {
printf("You are eligible for marriage (Female, %d years old).\n", age);
} else {
printf("You are NOT eligible for marriage (Female, %d years old).\n", age);
}
} else {
printf("Invalid input. Please enter 'M' or 'F' for gender.\n");
}
return 0;
}
Enter gender (M for Male, F for Female): f
Enter age: 21
You are eligible for marriage (Female, 21 years old).
=== Code Execution Successful ===
Activate Windows
Go to Settings to activate Windows.
100°F
Sunny
Search
ENG
IN
2:43 PM
4/19/2025