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Output

Clear

```
1 //Write a C program that counts the number of vowels and consonants in a given
  string
2 #include <stdio.h>
3 #include <string.h>
4 int main() {
5     char str[100];
6     int vowels = 0, consonants = 0;
7     printf("Enter a string: ");
8     fgets(str, 100, stdin);
9     for (int i = 0; str[i] != '\0'; i++) {
10         if (str[i] >= 'a' && str[i] <= 'z' || str[i] >= 'A' && str[i] <= 'Z') {
11             if (str[i] == 'a' || str[i] == 'e' || str[i] == 'i' || str[i] == 'o'
12                 || str[i] == 'u' ||
13                 str[i] == 'A' || str[i] == 'E' || str[i] == 'I' || str[i] == 'O'
14                 || str[i] == 'U') {
15                 vowels++;
16             } else {
17                 consonants++;
18             }
19         }
20     }
21     printf("Vowels: %d\n", vowels);
22     printf("Consonants: %d\nROSHAN", consonants);
23     return 0;
24 }
```

```
*Enter a string: r
Vowels: 0
Consonants: 1
ROSHAN

=== Code Execution Successful ===
```

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```
1 //Write a C program that concatenates two strings
2 #include <stdio.h>
3 #include <string.h>
4 int main() {
5     char str1[100], str2[100], str3[200];
6     printf("Enter the first string: ");
7     gets(str1);
8     printf("Enter the second string: ");
9     gets(str2);
10    strcpy(str3, str1);
11    strcat(str3, str2);
12    printf("Concatenated string: %s\n\nROSHAN", str3);
13    return 0;
14 }
```

Output

Clear

```
/tmp/ZxvWrDeSRF/main.c: In function 'main':
/tmp/ZxvWrDeSRF/main.c:8:5: warning: implicit declaration of function 'gets'; did you mean
      'fgets'? [-Wimplicit-function-declaration]
      8 |     gets(str1);
        |     ^~~~
        |     fgets
/rbin/ld: /tmp/ccnmQX9q.o: in function 'main':
main.c:(.text+0x27): warning: the 'gets' function is dangerous and should not be used.
Enter the first string: 121
Enter the second string: 111
Concatenated string: 121111

ROSHAN

=== Code Execution Successful ===
```

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```
1 //Write a C program that swaps two numbers using pointers
2 #include <stdio.h>
3 void swap(int *x, int *y) {
4     int temp = *x;
5     *x = *y;
6     *y = temp;
7 }
8 int main() {
9     int a = 10, b = 20;
10    printf("Before swapping: a = %d, b = %d\n", a, b);
11    swap(&a, &b);
12    printf("After swapping: a = %d, b = %d\n\nROSHAN", a, b);
13    return 0;
14 }
```

Output

Clear

Before swapping: a = 10, b = 20  
After swapping: a = 20, b = 10  
  
ROSHAN  
  
=== Code Execution Successful ===

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1 //Write a C program that dynamically allocates memory for an array of integers using malloc() and uses pointers to manipulate the array.

2 #include <stdio.h>

3 #include <stdlib.h>

4 int main() {

5 int n;

6 printf("Enter the number of elements: ");

7 scanf("%d", &n);

8 int \*arr = (int \*)malloc(n \* sizeof(int));

9 if (arr == NULL) {

10 printf("Memory allocation failed!\n");

11 return 1;

12 }

13 printf("Enter the elements:\n");

14 for (int i = 0; i < n; i++) {

15 scanf("%d", &arr[i]);

16 }

17 printf("Array elements:\n");

18 for (int i = 0; i < n; i++) {

19 printf("%d ", arr[i]);

20 }

21 free(arr);

22 printf("\nafter free %d\nROSHAN",\*arr);

23 return 0;

24 }

Output

Clear

Enter the number of elements: 3

Enter the elements:

1

2

3

Array elements:

1 2 3

after free 0

ROSHAN

=== Code Execution Successful ===

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Run

```
1 //Write a C program that calculates the sum of all elements in an array using
  pointers
2 #include <stdio.h>
3 int main() {
4     int arr[] = {1, 2, 3, 4, 5};
5     int n = sizeof(arr) / sizeof(arr[0]);
6     int *ptr = arr;
7     int sum = 0;
8     for (int i = 0; i < n; i++) {
9         sum += *ptr;
10        ptr++;
11    }
12    printf("Sum of all elements in the array: %d\n\nROSHAN", sum);
13    return 0;
14 }
15
```

Output

Clear

Sum of all elements in the array: 15

ROSHAN

=== Code Execution Successful ===

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Output

Clear

```
1 //Write a C program that defines a user-defined function to calculate
  the factorial of a number.
2 #include <stdio.h>
3 int factorial(int n) {
4     if (n == 0) {
5         return 1;
6     } else {
7         return n * factorial(n - 1);
8     }
9 }
10 int main() {
11     int num;
12     printf("Enter a number: ");
13     scanf("%d", &num);
14     printf("Factorial of %d is %d\n\nROSHAN", num, factorial(num));
15     return 0;
16 }
```

```
Enter a number: 5
Factorial of 5 is 120

ROSHAN

=== Code Execution Successful ===
```

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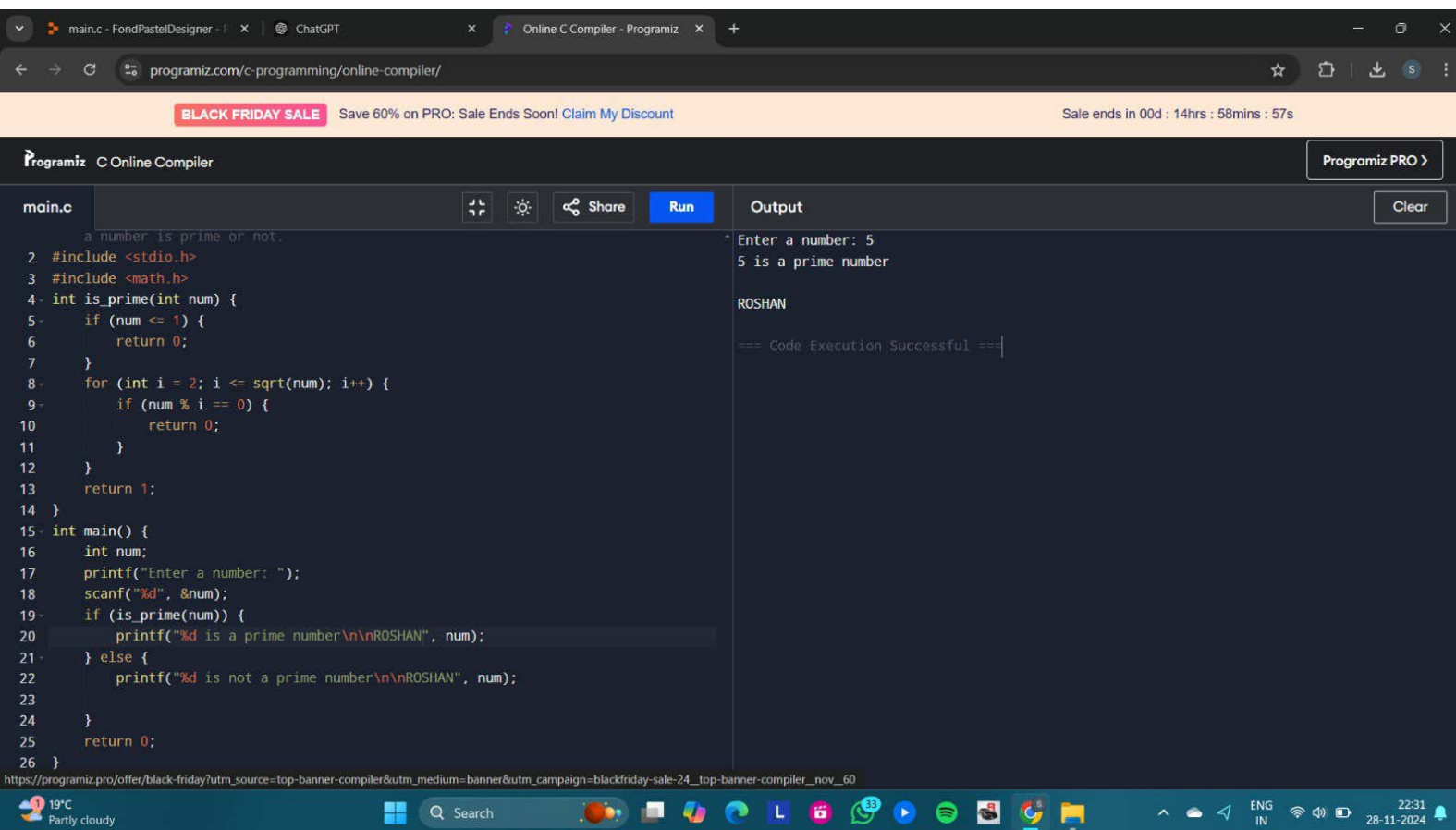
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Run

```
1 //Write a C program that defines a user-defined function to find the maximum of two
  numbers.
2 #include <stdio.h>
3 int max(int num1, int num2) {
4     if (num1 > num2) {
5         return num1;
6     } else {
7         return num2;
8     }
9 }
10 int main() {
11     int num1, num2;
12     printf("Enter two numbers: ");
13     scanf("%d %d", &num1, &num2);
14     int maximum = max(num1, num2);
15     printf("The maximum of %d and %d is %d\n\nROSHAN", num1, num2, maximum);
16     return 0;
17 }
```

Output

Clear

Enter two numbers: 1  
2  
The maximum of 1 and 2 is 2  
  
ROSHAN  
  
=== Code Execution Successful ===

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Run

```
1 //Write a C program that defines a user-defined function to find the sum of digits
  of a number
2 #include <stdio.h>
3 int sumDigits(int num) {
4     int sum = 0;
5     while (num != 0) {
6         sum += num % 10;
7         num /= 10;
8     }
9     return sum;
10 }
11 int main() {
12     int number;
13     printf("Enter a number: ");
14     scanf("%d", &number);
15     int result = sumDigits(number);
16     printf("Sum of digits: %d\n\nROSHAN", result);
17     return 0;
18 }
```

Output

Clear

Enter a number: 123  
Sum of digits: 6  
  
ROSHAN  
  
=== Code Execution Successful ===

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ENG  
IN

22:35  
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Run

Output

Clear

```
1 //Write a C program that defines an array of integers and finds the largest element
  in the array
2 #include <stdio.h>
3 int main() {
4     int arr[] = {10, 20, 30, 40, 50};
5     int n = sizeof(arr) / sizeof(arr[0]);
6     int largest = arr[0];
7     for (int i = 1; i < n; i++) {
8         if (arr[i] > largest) {
9             largest = arr[i];
10        }
11    }
12    printf("Largest element in the array is: %d\n\nROSHAN", largest);
13    return 0;
14 }
```

Largest element in the array is: 50

ROSHAN

=== Code Execution Successful ===

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main.c

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Run

Output

Clear

```
1 //Write a C program that reverses an array
2 #include <stdio.h>
3 int main() {
4     int arr[] = {1, 2, 3, 4, 5};
5     int n = sizeof(arr) / sizeof(arr[0]);
6     int i, temp;
7     printf("Original array: ");
8     for (i = 0; i < n; i++) {
9         printf("%d ", arr[i]);
10    }
11    for (i = 0; i < n / 2; i++) {
12        temp = arr[i];
13        arr[i] = arr[n - i - 1];
14        arr[n - i - 1] = temp;
15    }
16    printf("\nReversed array: ");
17    for (i = 0; i < n; i++) {
18        printf("%d ", arr[i]);
19    }
20    }
21    printf("ROSHAN");
22    return 0;
23 }
```

Original array: 1 2 3 4 5  
Reversed array: 5 4 3 2 1 ROSHAN  
  
=== Code Execution Successful ===

Air: Moderate Now

Search

ENG IN22:41 28-11-2024

The image shows a web browser window with the URL 'programiz.com/c-programming/online-compiler/'. The browser's address bar and tabs are visible at the top. A promotional banner for 'BLACK FRIDAY SALE' is present, offering a 60% discount on the PRO version. The main interface is divided into two panels. The left panel, titled 'main.c', contains a C program that calculates the sum of elements in an array [1, 2, 3, 4, 5]. The right panel, titled 'Output', displays the result: 'Sum of all elements in the array: 15' and 'ROSHAN', followed by a success message '=== Code Execution Successful ==='. The bottom of the image shows a Windows taskbar with various application icons and a system clock indicating 22:42 on 28-11-2024.



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main.c

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Run

```
1 //Write a C program that reverses a string without using the built-in strrev()
  function
2 #include<stdio.h>
3 #include <string.h>
4 int main() {
5     char str[100];
6     int i, j;
7     printf("Enter a string: ");
8     scanf("%s", str);
9     for (i = 0, j = strlen(str) - 1; i < j; i++, j--) {
10         char temp = str[i];
11         str[i] = str[j];
12         str[j] = temp;
13     }
14     printf("Reversed string: %s\n\nROSHAN", str);
15     return 0;
16 }
```

Output

Clear

Enter a string: 1234  
Reversed string: 4321  
  
ROSHAN  
  
=== Code Execution Successful ===

20°C  
Partly cloudy

Search

ENG  
IN

22:48  
28-11-2024

The screenshot displays a web browser window at the URL "programiz.com/c-programming/online-compiler/". At the top, there's a navigation bar with tabs for "main.c - FondPastelDesigner - I", "ChatGPT", and "Online C Compiler - Programiz". A promotional banner for "BLACK FRIDAY SALE" is visible, stating "Save 60% on PRO: Sale Ends Soon! Claim My Discount" and "Sale ends in 00d : 14hrs : 36mins : 20s". The main interface features a dark-themed code editor on the left labeled "main.c" with a file icon, a settings gear, a share button, and a blue "Run" button. The code in the editor is as follows:

```
1 //Write a C program that checks if a given string is a palindrome
2 #include <stdio.h>
3 #include <string.h>
4
5 int is_palindrome(char *str) {
6     int len = strlen(str);
7     for (int i = 0; i < len / 2; i++) {
8         if (str[i] != str[len - i - 1]) {
9             return 0;
10        }
11    }
12    return 1;
13 }
14
15 int main() {
16     char str[100];
17     printf("Enter a string: ");
18     scanf("%s", str);
19     if (is_palindrome(str)) {
20         printf("%s is a palindrome\nROSHAN", str);
21     } else {
22         printf("%s is not a palindrome\nROSHAN", str);
23     }
24     return 0;
25 }
```

To the right of the code editor is the "Output" section, which includes a "Clear" button. It displays the execution results: "Enter a string: 121", "121 is a palindrome", and "ROSHAN". Below this, it says "=== Code Execution Successful ===". The bottom of the screen shows a Windows taskbar with various icons, including weather (20°C Partly cloudy), search, and system clock (22:53, 28-11-2024).