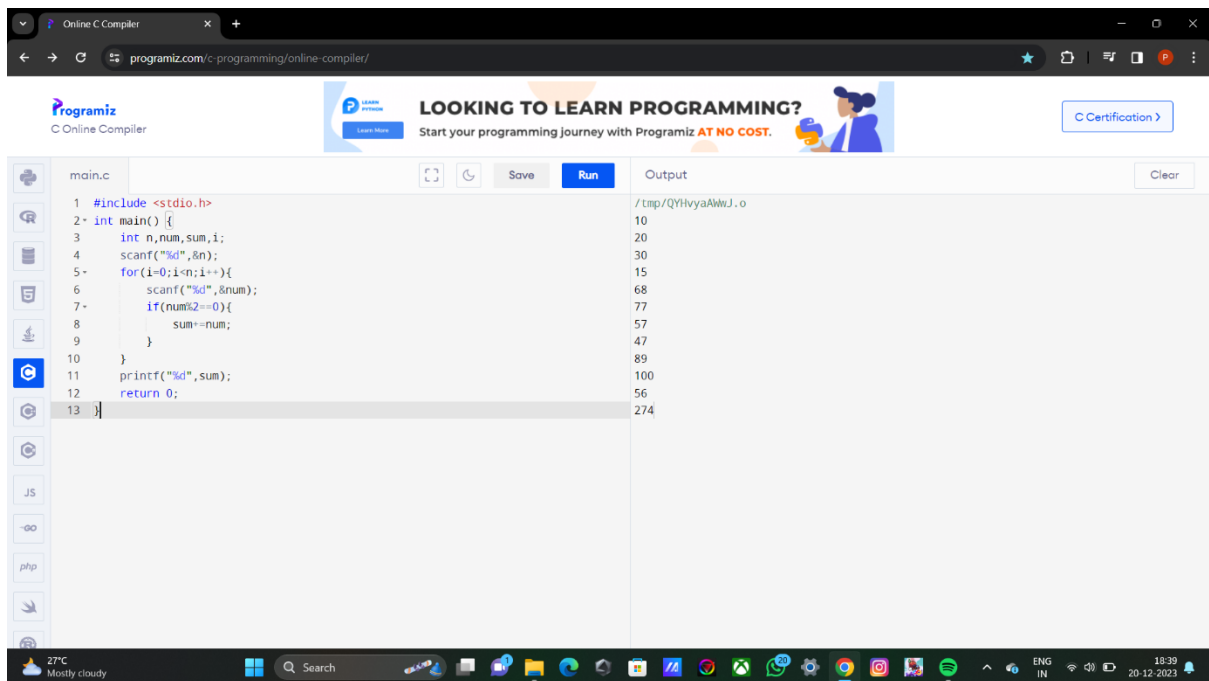


## 1.SUM OF RANDOM NUMBERS WHICH ARE DIVISIBLE BY 2.



Online C Compiler

programiz.com/c-programming/online-compiler/

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C Online Compiler

LOOKING TO LEARN PROGRAMMING?  
Start your programming journey with Programiz AT NO COST.

C Certification >

```
main.c
1 #include <stdio.h>
2 int main() {
3     int n, num, sum, i;
4     scanf("%d", &n);
5     for (i=0; i<n; i++){
6         scanf("%d", &num);
7         if (num%2==0){
8             sum+=num;
9         }
10    }
11    printf("%d", sum);
12    return 0;
13 }
```

Output

/tmp/QYHvyaAkwJ.o

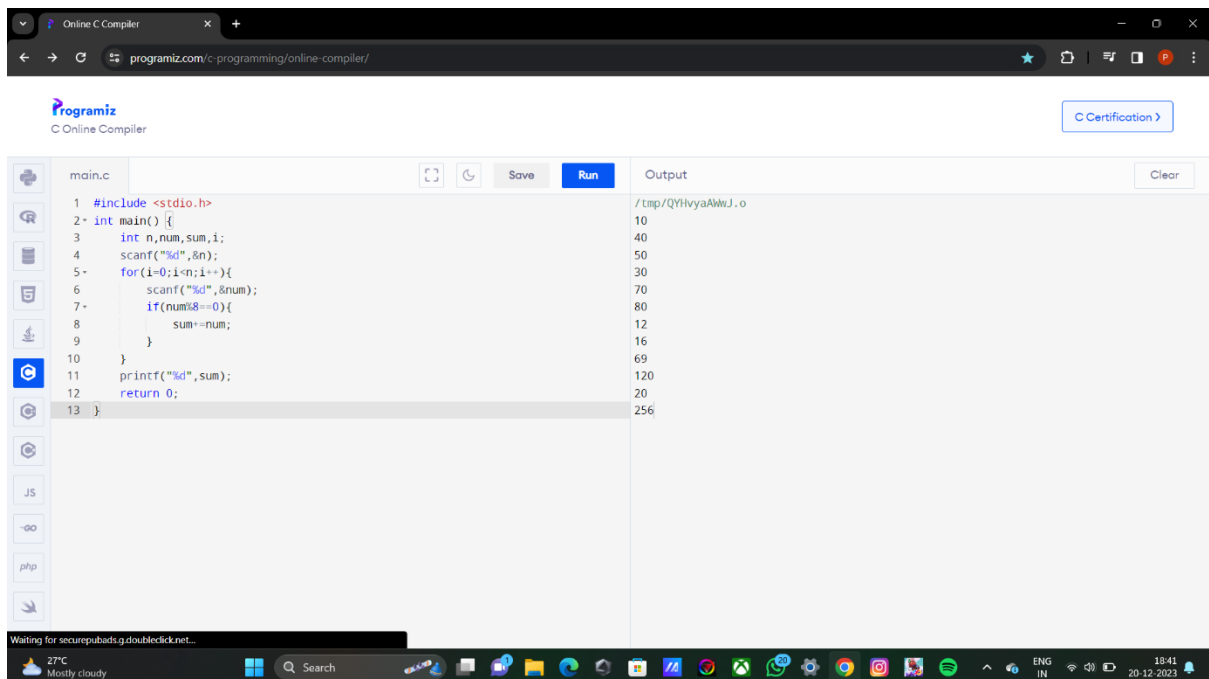
10  
20  
30  
15  
68  
77  
57  
47  
89  
100  
56  
274

27°C Mostly cloudy

Search

20-12-2023 18:39

## 2. SUM OF RANDOM NUMBERS WHICH ARE DIVISIBLE BY 2.



Online C Compiler

programiz.com/c-programming/online-compiler/

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```
main.c
1 #include <stdio.h>
2 int main() {
3     int n, num, sum, i;
4     scanf("%d", &n);
5     for (i=0; i<n; i++){
6         scanf("%d", &num);
7         if (num%2==0){
8             sum+=num;
9         }
10    }
11    printf("%d", sum);
12    return 0;
13 }
```

Output

/tmp/QYHvyaAkwJ.o

10  
40  
50  
30  
70  
80  
12  
16  
69  
120  
20  
256

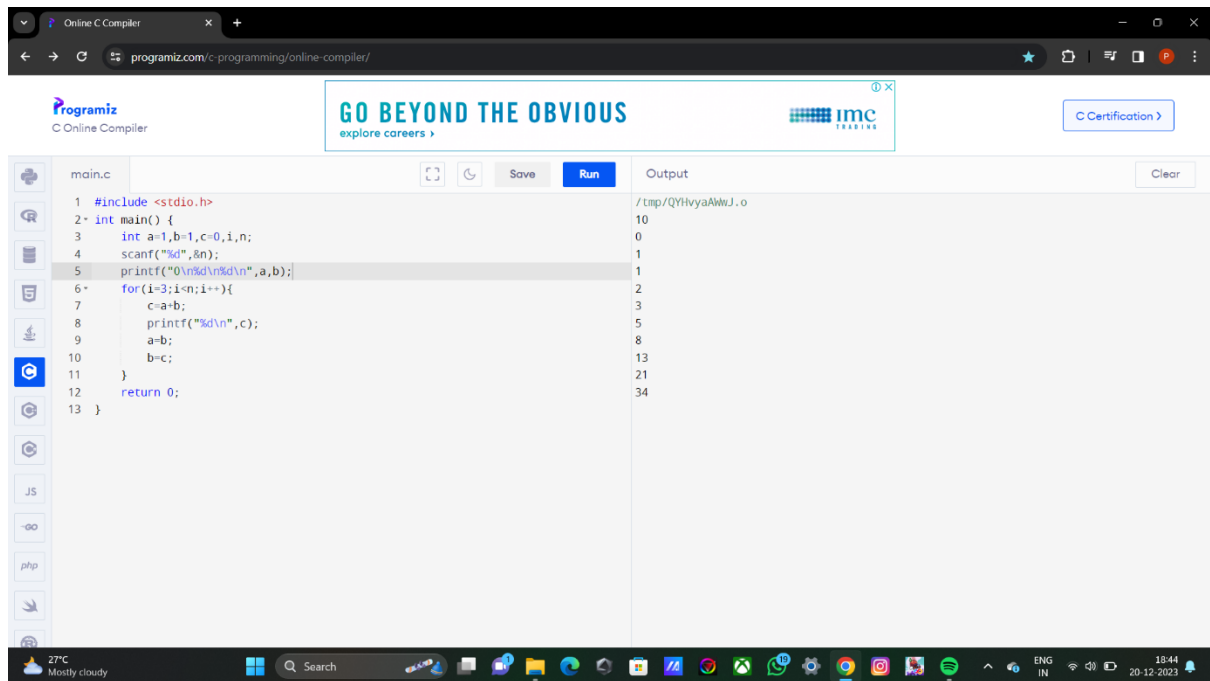
Waiting for securepubads.g.doubleclick.net...

27°C Mostly cloudy

Search

20-12-2023 18:41

### 3. FIBONACCI SERIES OF “N” NUMBER OF TERMS.



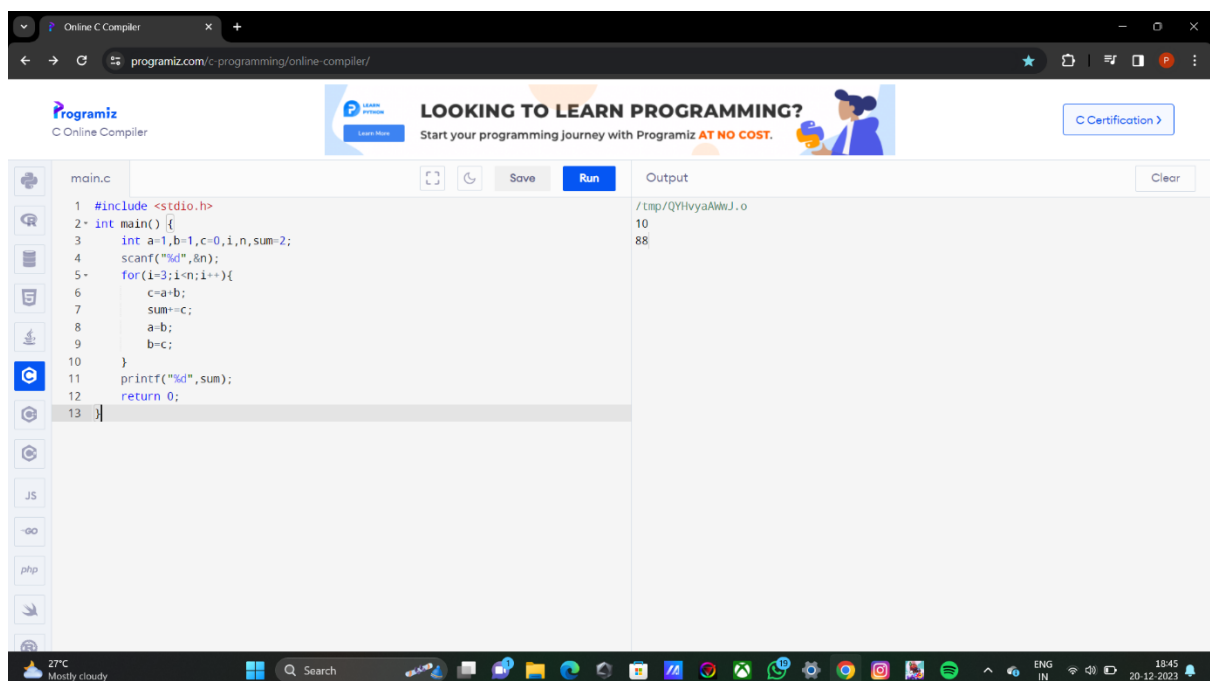
The screenshot shows the Programiz Online C Compiler interface. The code in the editor is as follows:

```
1 #include <stdio.h>
2 int main() {
3     int a=1,b=1,c=0,i,n;
4     scanf("%d",&n);
5     printf("0\n%d\n%d\n",a,b);
6     for(i=3;i<=n;i++){
7         c=a+b;
8         printf("%d\n",c);
9         a=b;
10        b=c;
11    }
12    return 0;
13 }
```

The output window displays the following results for n=10:

```
/tmp/QYHvyaAwwJ.o
10
0
1
1
2
3
5
8
13
21
34
```

### 4. SUM OF FIBONNACI SERIES UPTO “N” NUMBER OF TERMS.



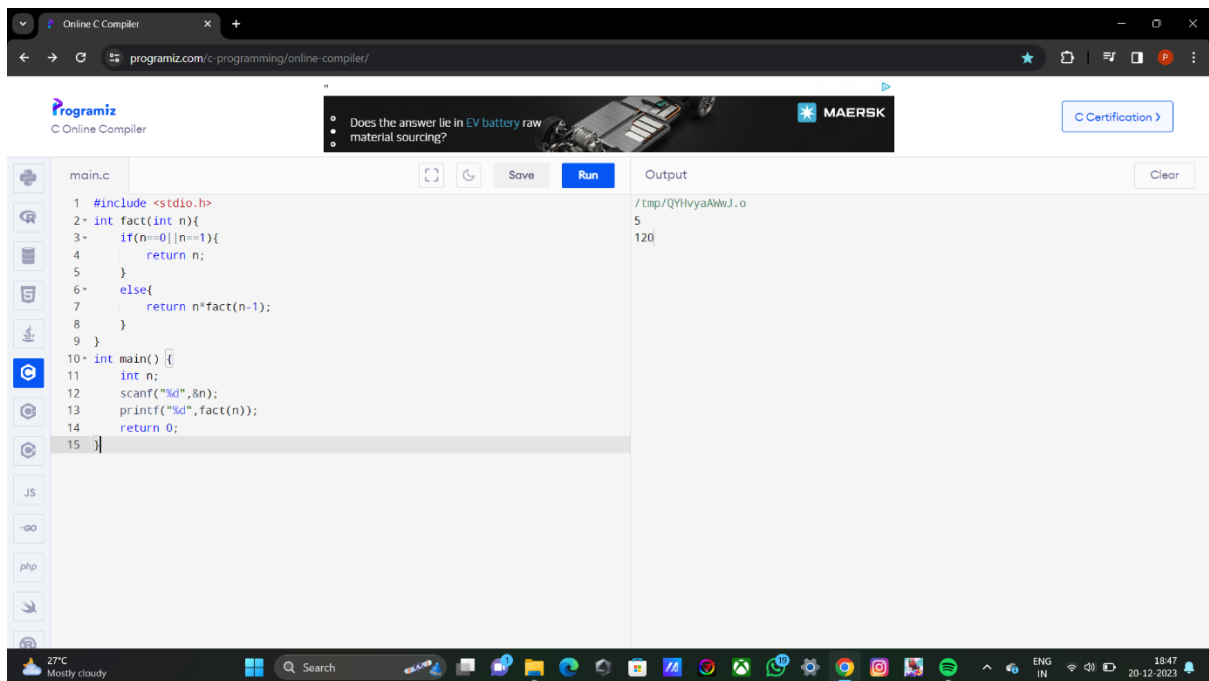
The screenshot shows the Programiz Online C Compiler interface. The code in the editor is as follows:

```
1 #include <stdio.h>
2 int main() {
3     int a=1,b=1,c=0,i,n,sum=2;
4     scanf("%d",&n);
5     for(i=3;i<=n;i++){
6         c=a+b;
7         sum+=c;
8         a=b;
9         b=c;
10    }
11    printf("%d",sum);
12    return 0;
13 }
```

The output window displays the following results for n=10:

```
/tmp/QYHvyaAwwJ.o
10
88
```

## 5. FACTORIAL USING RECURSION.



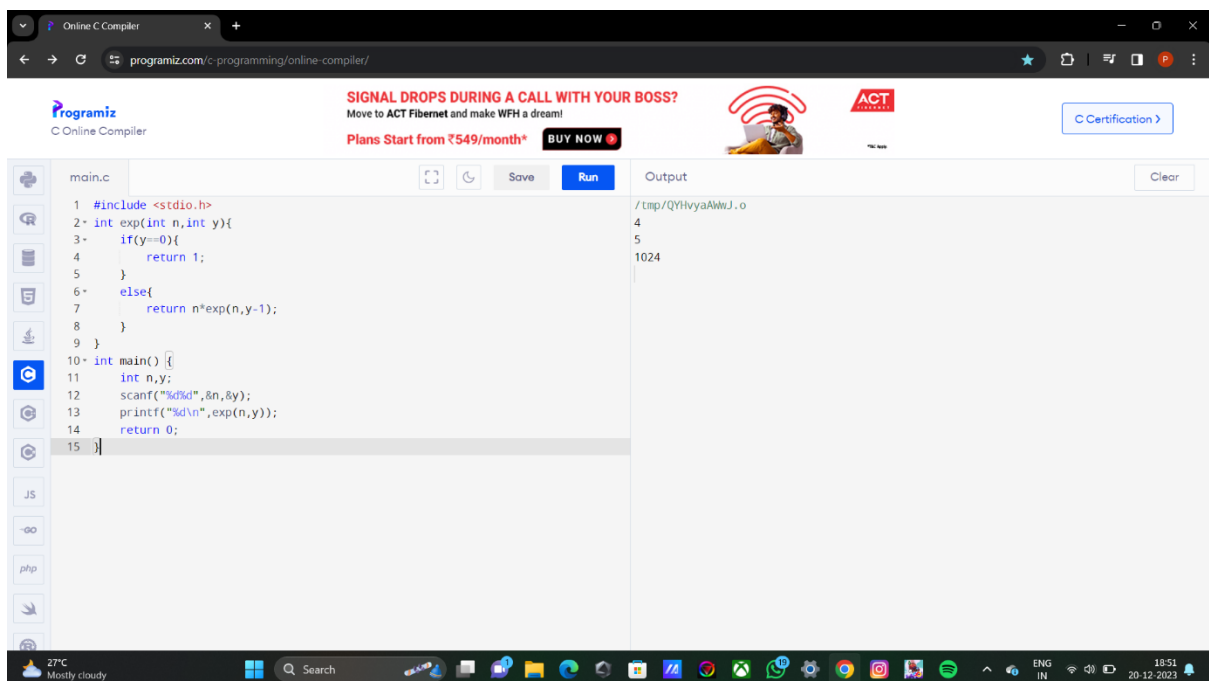
The screenshot shows the Programiz Online C Compiler interface. The code editor contains a C program for calculating the factorial of a number using recursion. The program includes `<stdio.h>`, defines a recursive function `fact`, and a `main` function that takes user input and prints the result. The output window shows the results for inputs 5 and 120.

```
1 #include <stdio.h>
2 int fact(int n){
3     if(n==0 || n==1){
4         return n;
5     }
6     else{
7         return n*fact(n-1);
8     }
9 }
10 int main() {
11     int n;
12     scanf("%d",&n);
13     printf("%d",fact(n));
14     return 0;
15 }
```

Output:

```
/tmp/QYHvyaAblwJ.o
5
120
```

## 6. TO FIND EXPONENT OF A GIVEN POWER AND BASE USING RECURSION.



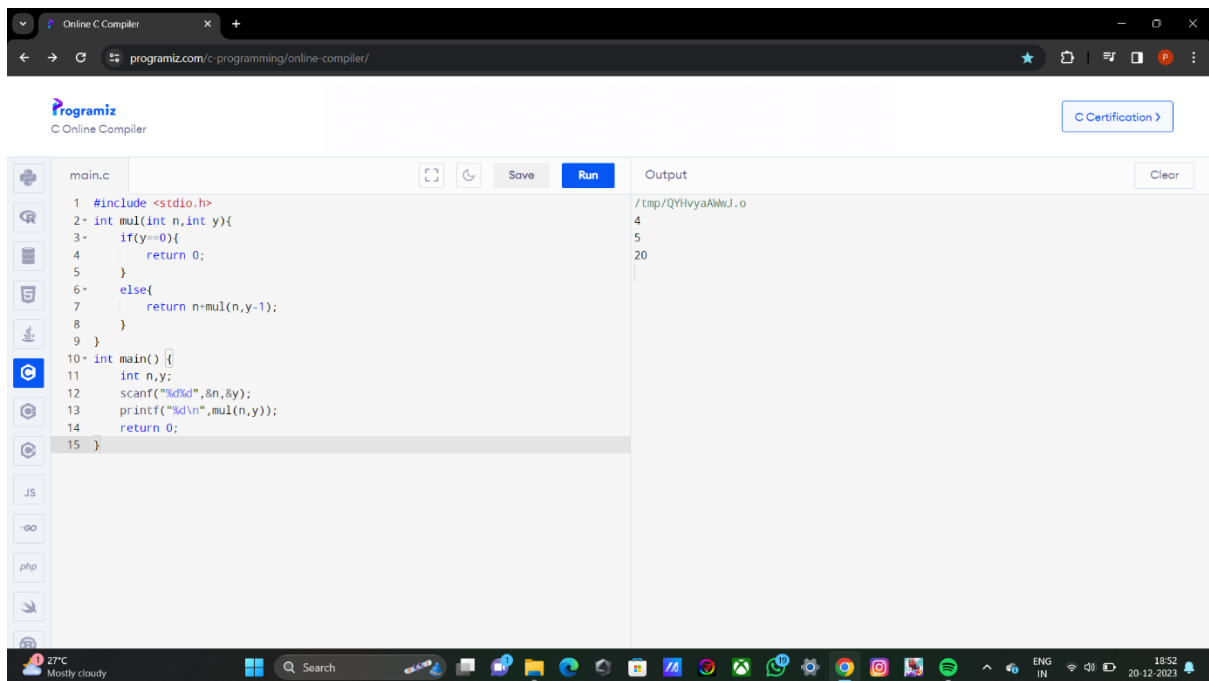
The screenshot shows the Programiz Online C Compiler interface. The code editor contains a C program for finding the exponent of a given power and base using recursion. The program includes `<stdio.h>`, defines a recursive function `exp`, and a `main` function that takes user input for base and power and prints the result. The output window shows the results for base 4 and power 5, resulting in 1024.

```
1 #include <stdio.h>
2 int exp(int n,int y){
3     if(y==0){
4         return 1;
5     }
6     else{
7         return n*exp(n,y-1);
8     }
9 }
10 int main() {
11     int n,y;
12     scanf("%d%d",&n,&y);
13     printf("%d\n",exp(n,y));
14     return 0;
15 }
```

Output:

```
/tmp/QYHvyaAblwJ.o
4
5
1024
```

## 7. RECURSION PROGRAM TO FIND THE PRODUCT OF TWO NUMBERS.



The screenshot shows a web browser window with the URL `programiz.com/c-programming/online-compiler/`. The page features the Programiz logo and a "C Certification" button. The main area is a code editor with a file named `main.c`. The code is as follows:

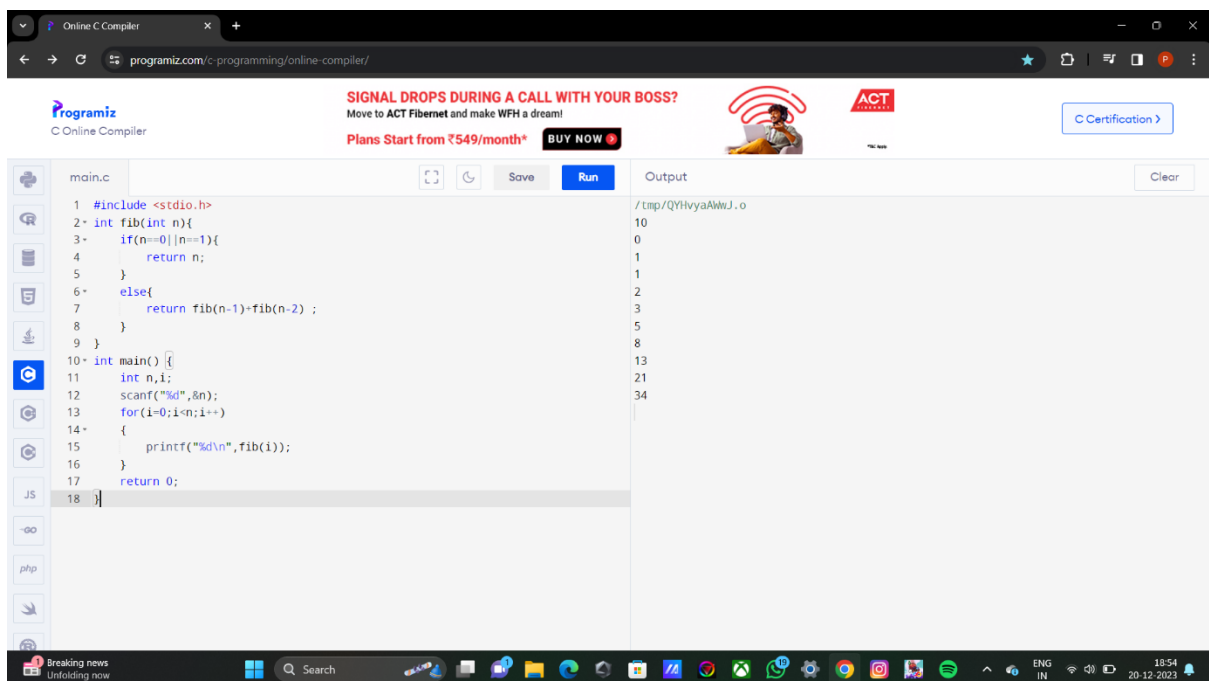
```
1 #include <stdio.h>
2 int mul(int n, int y){
3     if(y==0){
4         return 0;
5     }
6     else{
7         return n+mul(n,y-1);
8     }
9 }
10 int main() {
11     int n,y;
12     scanf("%d%d",&n,&y);
13     printf("%d\n",mul(n,y));
14     return 0;
15 }
```

To the right of the code editor is an "Output" window showing the results of the program execution:

```
/tmp/QYHvyaAkwJ.o
4
5
20
```

The bottom of the image shows a Windows taskbar with various application icons, a search bar, and system status icons indicating a temperature of 27°C and the date 20-12-2023.

## 8. FIBONACCI SERIES USING RECURSION.



The screenshot shows the same online C compiler interface. The code editor now contains a program to generate the Fibonacci series:

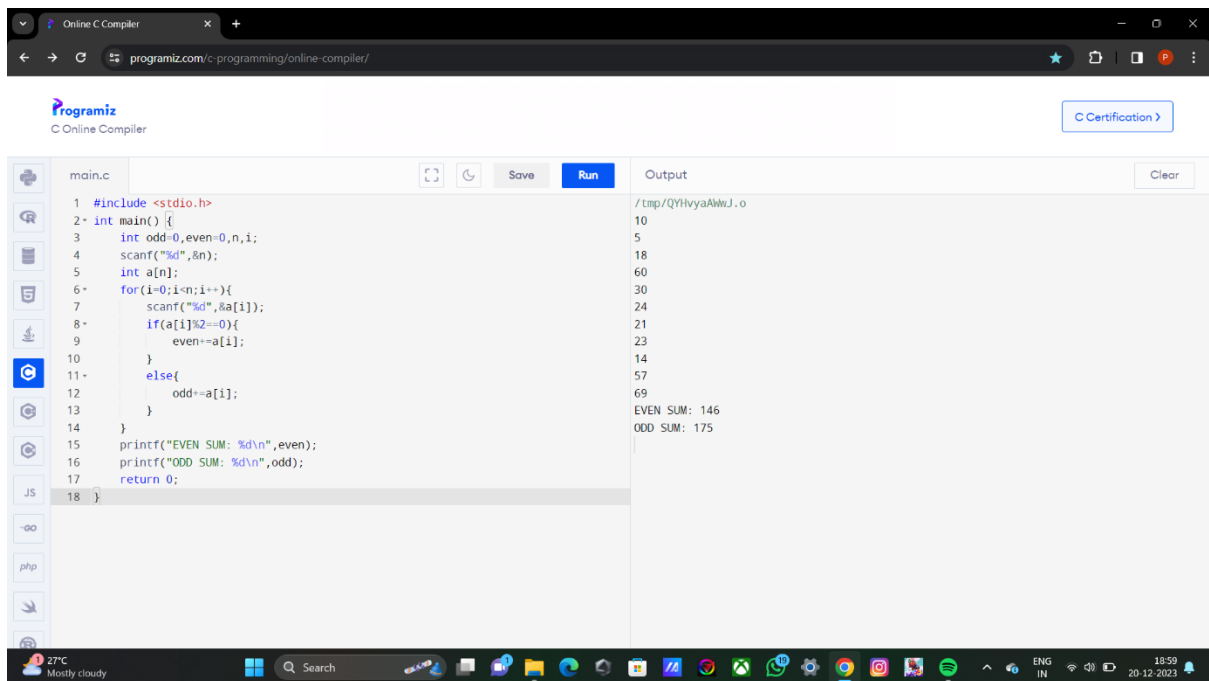
```
1 #include <stdio.h>
2 int fib(int n){
3     if(n==0||n==1){
4         return n;
5     }
6     else{
7         return fib(n-1)+fib(n-2);
8     }
9 }
10 int main() {
11     int n,i;
12     scanf("%d",&n);
13     for(i=0;i<n;i++)
14     {
15         printf("%d\n",fib(i));
16     }
17     return 0;
18 }
```

The "Output" window displays the first 10 terms of the Fibonacci series:

```
/tmp/QYHvyaAkwJ.o
10
0
1
1
2
3
5
8
13
21
34
```

At the top of the page, there is a banner advertisement for ACT Fibernet with the text: "SIGNAL DROPS DURING A CALL WITH YOUR BOSS? Move to ACT Fibernet and make WFH a dream! Plans Start from ₹549/month\* BUY NOW". The Windows taskbar at the bottom shows the date as 20-12-2023 and the time as 18:54.

## 9. TO FIND SUM OF EVEN AND ODD NUMBERS IN A SET OF GIVEN NUMBERS.



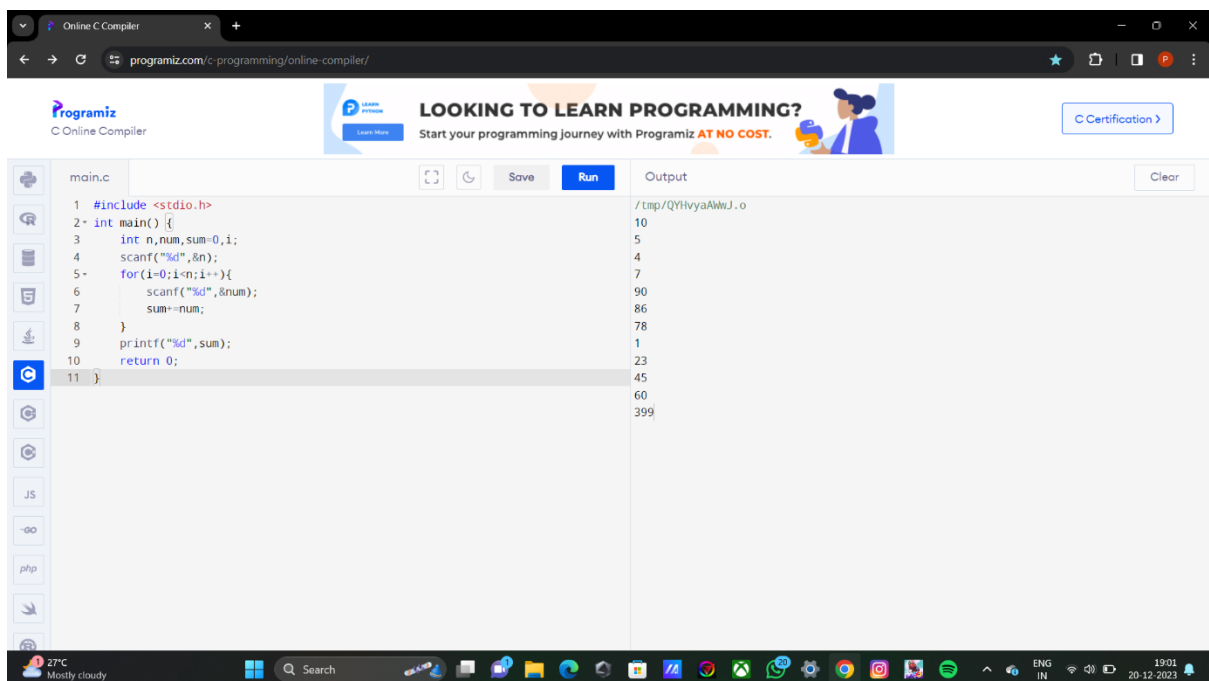
The screenshot shows the Programiz Online C Compiler interface. The code in the editor is as follows:

```
1 #include <stdio.h>
2 int main() {
3     int odd=0, even=0, n, i;
4     scanf("%d", &n);
5     int a[n];
6     for(i=0; i<n; i++){
7         scanf("%d", &a[i]);
8         if(a[i]%2==0){
9             even+=a[i];
10        }
11        else{
12            odd+=a[i];
13        }
14    }
15    printf("EVEN SUM: %d\n", even);
16    printf("ODD SUM: %d\n", odd);
17    return 0;
18 }
```

The output window displays the following results:

```
/tmp/QYHvyaAklwJ.o
10
5
18
60
30
24
21
23
14
57
69
EVEN SUM: 146
ODD SUM: 175
```

## 10. SUM OF "N" RANDOM NATURAL NUMBERS.



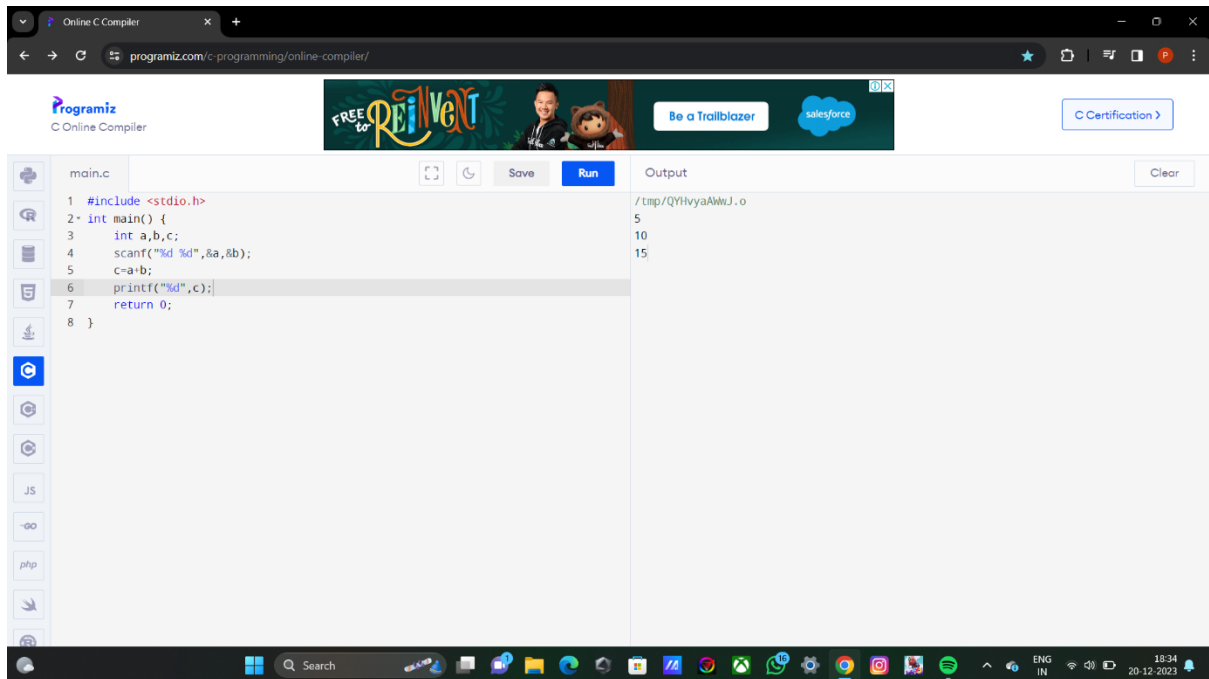
The screenshot shows the Programiz Online C Compiler interface. The code in the editor is as follows:

```
1 #include <stdio.h>
2 int main() {
3     int n, num, sum=0, i;
4     scanf("%d", &n);
5     for(i=0; i<n; i++){
6         scanf("%d", &num);
7         sum+=num;
8     }
9     printf("%d", sum);
10    return 0;
11 }
```

The output window displays the following results:

```
/tmp/QYHvyaAklwJ.o
10
5
4
7
90
86
78
1
23
45
60
399
```

## 11. SUM OF TWO NUMBERS.



The screenshot shows a web browser window with the URL `programiz.com/c-programming/online-compiler/`. The page features a header with the Programiz logo, a "FREE to REINVENT" banner, and buttons for "Be a Trailblazer" and "C Certification". Below the header, the online compiler interface is visible. On the left, a file explorer shows a file named `main.c`. The code editor contains the following C program:

```
1 #include <stdio.h>
2 int main() {
3     int a,b,c;
4     scanf("%d %d",&a,&b);
5     c=a+b;
6     printf("%d",c);
7     return 0;
8 }
```

On the right, the "Output" panel displays the result of the program execution:

```
/tmp/QYHyyaAbWJ.o
5
10
15
```

The Windows taskbar at the bottom shows the system clock as 18:34 on 20-12-2023.