

The screenshot shows the Dev-C++ IDE interface with the following details:

- Title Bar:** Dev-C++ 5.11
- File Menu:** File, Open, Save, Print, Exit
- Tools Menu:** Tools, AStyle, Window, Help
- Toolbar:** Standard icons for Open, Save, Print, Execute, etc.
- Project Explorer:** Shows files: perfect numbers.cpp, rev\_string.cpp, voting.cpp, half pyramid.cpp, pyramid numbers.cpp
- Code Editor:** Displays the following C++ code:

```
1 //perfect numbers.cpp
2 //rev_string.cpp
3 //voting.cpp
4 //half pyramid.cpp
5 //pyramid numbers.cpp
6
7 //perfect numbers.cpp
8 //rev_string.cpp
9 //voting.cpp
10 //half pyramid.cpp
11 //pyramid numbers.cpp
12
13 //perfect numbers.cpp
14 //rev_string.cpp
15 //voting.cpp
16 //half pyramid.cpp
17 //pyramid numbers.cpp
18
19 #include<iostream>
20 using namespace std;
21
22 int main()
23 {
24     int rows;
25     cout<<"enter number of rows:";
26     cin>>rows;
27     for(int i=1;i<=rows;i++)
28     {
29         for(int j = 1;j<=i;j++)
30         {
31             cout<<j<<" ";
32         }
33         cout<<"\n";
34     }
35     return 0;
36 }
```
- Output Window:** Shows the command prompt and the output of the program.

```
C:\Users\user\Desktop\pyramid numbers.exe
enter number of rows?
111111111111111111
222222222222222222
333333333333333333
444444444444444444
555555555555555555
666666666666666666
777777777777777777
Process exited after 30.46 seconds with return value 0
Press any key to continue . . .
```

A screenshot of the Dev-C++ IDE interface. On the left, the code editor shows a C++ program named 'half pyramid.cpp'. The code prompts the user for the number of rows and then prints a half pyramid pattern of asterisks. The code is as follows:

```
#include<iostream>
using namespace std;
int main()
{
    int rows;
    cout<<"enter the number of rows:";
    cin>>rows;
    for(int i=1;i<rows;i++)
    {
        for(int j=1;j<=i;j++)
        {
            cout<<"*";
        }
        cout<<"\n";
    }
    return 0;
}
```

The status bar at the bottom right indicates the file path: 'C:\Users\user\Desktop\half pyramid.exe'.

The terminal window on the right displays the execution results:

```
C:\Users\user\Desktop\half pyramid.exe
enter the Number of rows:6
*****
*****
*****
*****
*****
*****
Process exited after 8.217 seconds with return value 0
Press any key to continue . . .
```

The screenshot shows a C++ development environment with several files listed in the sidebar: numbers.cpp, rev\_string.cpp, voting.cpp, half\_pyramid.cpp, pyramid\_numbers.cpp, and TDM-GCC 4.9.2 64-bit. The main window displays the following code:

```
1 //numbers.cpp
2 #include<iostream>
3 using namespace std;
4
5 int main()
6 {
7     int age;
8     cout<<"enter the age of the person:";
9     cin>>age;
10    if(age>=18)
11        cout<<"you are eligible for voting:";
12    else
13        cout<<"you are not eligible for voting:";
14    cout<<"still u have"<<age-18<<"years";
15
16    return 0;
17 }
18
19 }
```

A callout box highlights line 14 of the code: "C:\Users\user\Desktop\voting.exe enter the age of the person:14". Below the code, a terminal window shows the execution of the program:

```
C:\Users\user\Desktop\voting.exe
enter the age of the person:14
you are eligible for voting.
Process exited after 26.15 seconds with return value 0
Press any key to continue . . .
```

TDW-GCC 4.9.2 64-bit

voting.cpp half pyramid.cpp pyramid numbers.cpp

Project Execute Tools AStyle Window Help

rev\_string.cpp

perfect numbers.cpp rev\_string.cpp

#include<iostream>

using namespace std;

//function to reverse a string

int reverse(string str)

int len=str.length();

void reverse(string str)

{

int n=len;

while(n--)

cout<<str[n];

}

}/driver code

int main(void)

{

string s="Geeks for geeks";

reverse(s);

return(0);

}

C:\Users\user\Desktop\rev\_string.exe

skeeg rof skeeg

skeeg exited after 9.003568 seconds with return

Process any key to continue . . .

ults Close

rev\_string.exe

The screenshot shows the Dev-C++ IDE interface. The menu bar includes Project, Execute, Tools, AStyle, Window, and Help. The toolbar has icons for opening files, saving, executing, and running. The status bar at the bottom shows "TDM-GCC 4.9.2 64-bit". The code editor displays the "perfect numbers.cpp" file:

```
1 //perfect numbers.cpp [rev_string.cpp | voting.cpp | half pyramid.cpp | pyramid numbers.cpp]
2 #include<iostream>
3 #include<cctype>
4 using namespace std;
5 int main(){
6     int n,i=1,sum=0;
7     cout<<"enter a number:";
8     cin>>n;
9     while(i<n){
10         if(n%i==0)
11             sum=sum+i;
12         i++;
13     }
14     if(sum==n)
15         cout<<i<<"is a perfect number\n";
16     else
17         cout<<i<<"is not a perfect number\n";
18     system ("pause");
19 }
```

A terminal window titled "C:\Users\user\Desktop\perfect numbers.exe" is shown. It displays the output of the program:

```
C:\Users\user\Desktop\perfect numbers.exe
enter a number:6
6 is a perfect number
press any key to continue . . .
```

A terminal window titled "C:\Users\user\Desktop\perfect numbers.exe" is shown. It displays the output of the program:

```
user@DESKTOP-74MIB: ~
Insert Find Results Close
C:\Users\user\Desktop\perfect numbers.exe
OPRO-A54 - ©pranitha vanga
2022/09/24 09:31
non-parsing in
```

perfect numbers.cpp | rev\_string.cpp | voting.cpp | half pyramid.cpp | pyramid numbers.cpp | alphabet pyramid.cpp

enter the uppercase character you want to print in the last row:

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     char input,alphabet='a';
6     cout<<"enter the uppercase character you want to print in the last row:";
7     cin>>input;
8     for(int i=1;i<=(input-'a'+1);i++)
9     {
10        for(int j=1;j<=i;j++)
11        {
12            cout<<alphabet<<" ";
13            alphabet++;
14        }
15        cout<<endl;
16    }
17    return 0;
18 }
19
20 }
```

C:\Users\user\Desktop\alphabet pyramid.exe

enter the uppercase character you want to print in the last row:

```
a
b b
c c c
d d d d
e e e e
```

Process exited after 21.33 seconds with return value 0

Press any key to continue . . .

File Log Debug Find Results Close

0

filename: C:\Users\user\Desktop\alphabet pyramid.exe

: 1.83262920379639 MiB

: Time: 0.59s

: 20

Length: 330

Insert Done parsing in 0.015 seconds

OPPO A54 · ©pranitha vanga  
2022/09/24 10:33

A screenshot of a C++ development environment. The top window shows the code for an inverted pyramid print program:

```
1 #include<iostream>
2 using namespace std;
3
4 int main()
5 {
6     int rows;
7     cout<<"enter number of rows:">>rows;
8     for(int i=rows;i>1;i--)
9     {
10        for(int j=1;j<i;j++)
11        {
12            cout<<"*";
13        }
14        cout<<endl;
15    }
16    return 0;
17 }
18 }
```

The code uses nested loops to print an inverted pyramid of asterisks. The second window shows the terminal output of the program:

```
C:\Users\user\Desktop\inverted pyramid.exe
enter number of rows:6
*****
*****
*****
****
**
*
Process exited after 3.008 seconds with return value 0
Press any key to continue . . .
```

The bottom window shows the compiler log:

```
Compiler Resources Abort Compilation Find Results Close
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\user\Desktop\inverted pyramid.exe
- Output Size: 1.83262920379639 MiB
- Compilation Time: 0.58s
Line: 11 Col: 25 Sel: 0 Lines: 18 Length: 232 Insert Done parsing in 0.016 seconds
```

A screenshot of a C++ IDE interface. The menu bar includes 'File', 'Edit', 'Tools', 'AStyle', 'Window', and 'Help'. The toolbar has icons for file operations like Open, Save, and Execute. The code editor shows a file named 'perfect numbers.cpp' with the following content:

```
1 //perfect numbers.cpp | rev string.cpp | voting.cpp | half pyramid.cpp | pyramid numbers.cpp | alp
2 #include<iostream>
3 using namespace std;
4
5 int main()
6 {
7     int rows;
8     cout<<"enter number of rows:";
9     cin>>rows;
10    for(int i=rows;i>=1;i--)
11    {
12        for(int j=1;j<=i;j++)
13        {
14            cout<<j<<" ";
15        }
16        cout<<endl;
17    }
18
19 }
```

The output window shows the program's execution:

```
C:\Users\user\Desktop\inverted pyr numbers.exe
enter number of rows:6
1 1 1 1 1 1
2 2 2 2 2 2
3 3 3 3 3 3
4 4 4 4 4 4
5 5 5 5 5 5
6 6 6 6 6 6
```

At the bottom of the output window, it says: "Process exited after 9.203 seconds with return value 0".

A screenshot of a mobile phone screen showing the same C++ program. The title bar says 'OPPO A54' and 'pranitha vanga'. The status bar shows 'Dose parsing: 0.016s'. The text area displays the same code and output as the IDE.

```
OPPO A54 @pranitha vanga
2022/09/24 10:22:29
C:\Users\user\Desktop\inverted pyr numbers.exe
Dose parsing: 0.016s
```