

main.cpp

Run

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int i,n,m,a;
6     cout<<"\nEnter the limit:";
7     cin>>n;
8     cout<<"\nEnter the table number:";
9     cin>>a;
10    for(i=1;i<=n;i++)
11    {
12        cout<<"\n"<<a<<"*"<<i<<"="<<a*i;
13    }
14    return 0;
15 }
```

Output

Clear

```
/tmp/E4jYUutBQS.o
Enter the limit:6
Enter the table number:4
4*1=4
4*2=8
4*3=12
4*4=16
4*5=20
4*6=24
```

The screenshot displays a C++ development environment with two main panels: a code editor on the left and an output console on the right.

Code Editor:

- File Name:** main.cpp
- Language:** C++ (indicated by the icon on the left sidebar)
- Code Content:**

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int n, i, f1, f2, f3;
6     cout << "Enter the number: ";
7     cin >> n;
8     f1 = 0;
9     f2 = 1;
10    cout << f1 << " " << f2 << " ";
11    for(i = 1; i < n; i++)
12    {
13        f3 = f1 + f2;
14        cout << f3 << " ";
15        f1 = f2;
16        f2 = f3;
17    }
18    return 0;
19 }
```

Output Console:

- Title:** Output
- Action:** Clear (button)
- Content:**

```
/tmp/E4jYUutBQS.o
Enter the number: 5
0 1 1 2 3 5
```

[illegible]

[illegible]

The screenshot displays a C++ development environment with two main panels: a source code editor on the left and an output console on the right.

Source Code Editor:

- File Name:** main.cpp
- Code:**

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int n, sum = 0;
6
7     cout << "Enter a number: ";
8     cin >> n;
9
10    while (n > 0) {
11        sum += n % 10;
12        n /= 10;
13    }
14
15    cout << "Sum of digits: " << sum << endl;
16
17    return 0;
18 }
```

Output Console:

- Title:** Output
- Action:** Clear
- Content:**

```
/tmp/E4jYUutBQS.o
Enter a number: 56
Sum of digits: 11
```

A vertical toolbar on the far left contains icons for various IDE features such as file management, search, and execution. The bottom status bar shows the current language as JS.

main.cpp

Run

Output

Clear

```
1 //21. GCD of two numbers using do-while loop
2
3 #include <iostream>
4 using namespace std;
5
6 int main() {
7     int num1, num2;
8
9     cout << "Enter two numbers: ";
10    cin >> num1 >> num2;
11
12    do {
13        if (num1 > num2)
14            num1 -= num2;
15        else
16            num2 -= num1;
17    } while (num1 != num2);
18
19    cout << "GCD: " << num1 << endl;
20
21    return 0;
22 }
23
```

/tmp/R0qAvA4JDW.o
Enter two numbers: 4 6
GCD: 2

The screenshot displays a C++ development environment with two main panels: a code editor on the left and an output console on the right.

Code Editor:

- File Name:** main.cpp
- Line Numbers:** 1 through 24 are visible.
- Code Content:**

```
1 //22. Check whether the number is perfect or not
2
3 #include <iostream>
4 using namespace std;
5
6 int main() {
7     int num, sum = 0;
8
9     cout << "Enter a number: ";
10    cin >> num;
11
12    for (int i = 1; i < num; ++i) {
13        if (num % i == 0)
14            sum += i;
15    }
16
17    if (sum == num)
18        cout << num << " is a perfect number." << endl;
19    else
20        cout << num << " is not a perfect number." << endl;
21
22    return 0;
23 }
```

Output Console:

- Path:** /tmp/R0qAvA4JDW.o
- Input:** Enter a number: 28
- Output:** 28 is a perfect number.

IDE Interface Details:

- Left Sidebar:** Contains icons for file explorer, search, and other IDE functions.
- Top Bar:** Includes a "Run" button and a "Clear" button for the output console.
- Status Bar:** At the bottom, it shows "JS" and "php" as active languages.

main.cpp

Run

Output

Clear

```
1 //25.HAPPY NUMBER
2 #include <iostream>
3 #include <unordered_set>
4 using namespace std;
5 int getSumOfSquares(int n) {
6     int sum = 0;
7     while (n > 0) {
8         int digit = n % 10;
9         sum += digit * digit;
10        n /= 10;
11    }
12    return sum;
13 }
14 bool isHappy(int n) {
15     unordered_set<int> visited;
16     while (n != 1 && visited.find(n) == visited.end()) {
17         visited.insert(n);
18         n = getSumOfSquares(n);
19     }
20     return n == 1;
21 }
22 int main() {
23     int num;
24     cout << "Enter a number: ";
25     cin >> num;
26     if (isHappy(num))
27         cout << num << " is a Happy number." << endl;
28     else
29         cout << num << " is not a Happy number." << endl;
30     return 0;
}
```

```
/tmp/R0qAvA4JDW.o
Enter an integer: 567
567 is not a Harshad number.
```

main.cpp

Run

Clear

```
1 //25.STRONG NUMBER
2 #include <iostream>
3 using namespace std;
4 int factorial(int n) {
5     if (n == 0 || n == 1)
6         return 1;
7     else
8         return n * factorial(n - 1);
9 }
10 int main() {
11     int num, originalNum, sum = 0;
12     cout << "Enter an integer: ";
13     cin >> num;
14     originalNum = num;
15     while (num > 0) {
16         sum += factorial(num % 10);
17         num /= 10;
18     }
19     if (sum == originalNum)
20         cout << originalNum << " is a Strong number." << endl;
21     else
22         cout << originalNum << " is not a Strong number." << endl;
23     return 0;
24 }
25
```

Output

Clear

```
/tmp/R0qAvA4JDW.o
Enter an integer: 145
145 is a Strong number.
```

Waiting for www.google.co.in...

The screenshot displays a C++ development environment with two main panels: a source code editor on the left and an output console on the right.

Source Code Editor:

- File Name:** main.cpp
- Code:**

```
1 //25.happy number
2 #include <iostream>
3 #include <unordered_set>
4 using namespace std;
5
6 int getSumOfSquares(int n) {
7     int sum = 0;
8     while (n > 0) {
9         int digit = n % 10;
10        sum += digit * digit;
11        n /= 10;
12    }
13    return sum;
14 }
15 bool isHappy(int n) {
16     unordered_set<int> visited;
17     while (n != 1 && visited.find(n) == visited.end()) {
18         visited.insert(n);
19         n = getSumOfSquares(n);
20     }
21     return n == 1;
22 }
23 int main() {
24     int num;
25     cout << "Enter a number: ";
26     cin >> num;
27     if (isHappy(num))
28         cout << num << " is a Happy number." << endl;
29     else
30         cout << num << " is not a Happy number." << endl;
```

Output Console:

- Title:** Output
- Content:**

```
/tmp/R0qAvA4JDW.o
Enter a number: 34
34 is not a Happy number.
```
- Action:** A "Clear" button is located at the top right of the output panel.

```
main.cpp [Run] Output Clear
```

```
1 //27.buzz number  
2 #include <iostream>  
3 using namespace std;  
4  
5 int main() {  
6     int num;  
7  
8     cout << "Enter a number: ";  
9     cin >> num;  
10  
11    if (num % 7 == 0 || num % 10 == 7)  
12        cout << num << " is a Buzz number." << endl;  
13    else  
14        cout << num << " is not a Buzz number." << endl;  
15  
16    return 0;  
17 }  
18
```

```
/tmp/R0qAvA4JDW.o  
Enter a number: 45  
45 is not a Buzz number.  
|
```

The screenshot displays a C++ development environment with two main panels: a source code editor on the left and an output console on the right.

Source Code Editor:

- File Name:** main.cpp
- Code:**

```
1 //28.neon number
2 #include <iostream>
3 using namespace std;
4
5 int main() {
6     int num, square, sum = 0;
7
8     cout << "Enter a number: ";
9     cin >> num;
10
11     square = num * num;
12
13     while (square > 0) {
14         sum += square % 10;
15         square /= 10;
16     }
17
18     if (sum == num)
19         cout << num << " is a Neon number." << endl;
20     else
21         cout << num << " is not a Neon number." << endl;
22
23     return 0;
24 }
```

Output Console:

- Title:** Output
- Content:**

```
/tmp/R0qAvA4JDW.o
Enter a number: 9
9 is a Neon number.
```
- Action:** A "Clear" button is located at the top right of the output panel.

The interface includes a sidebar on the far left with icons for file management and various programming languages (C++, JS, PHP, etc.). The code editor has standard editing tools like copy, paste, and run buttons at the top.

[illegible]

The screenshot displays a C++ development environment with two main panels: a source code editor on the left and an output console on the right.

Source Code Editor:

- File Name:** main.cpp
- Code:**

```
1 //30.Narcissistic number
2 #include <iostream>
3 #include <cmath>
4 using namespace std;
5 int countDigits(int n) {
6     int count = 0;
7     while (n > 0) {
8         n /= 10;
9         ++count;
10    }
11    return count;
12 }
13 bool isNarcissistic(int n) {
14     int num = n;
15     int power = countDigits(n);
16     int sum = 0;
17     while (n > 0) {
18         int digit = n % 10;
19         sum += pow(digit, power);
20         n /= 10;
21     }
22     return sum == num;
23 }
24 int main() {
25     int num;
26     cout << "Enter a number: ";
27     cin >> num;
28     if (isNarcissistic(num))
29         cout << num << " is a Narcissistic number." << endl;
30     else
```

Output Console:

- Title:** Output
- Content:**

```
/tmp/R0qAvA4JDW.o
Enter a number: 56
56 is not a Narcissistic number.
```
- Action:** A "Clear" button is located at the top right of the output panel.

The interface includes a sidebar on the far left with icons for file management, running, debugging, and switching between different project views or languages like JavaScript and PHP.