Supreme-Batch-Debug-Exercise-C+... Q ••• Made with 🕲

## **Supreme-Batch-Debug-Exercise-C++ (Week-2)**

 $\underline{\text{NOTE}}\text{:} \ \text{The code snippet given may have compile time, runtime or logical errors.}$ 

How to attempt Debugging Exercise?

- 1. Copy the code to your code editor (e.g. VS Code).
- 2. Add relevant header files like "#include <iostream>" etc.
- 3. Run the code.
- 4. You will notice the expected output is not printing at the console.
- 5. Apply your smart coder mind to Debug the code.
- 6. Warning: Only see the solution after you have tried enough.
- 1. Add integers from 1 to N and display the sum on console.

```
void main(){
    int n;cin>n;
    int8_t sum=0;
    for(int i=0;i<n;++i){
        sum+=i;
    }
    cout<<sum<<endl;
    return 0;
}</pre>
```

solution.txt 0.1KB

2. Print full pyramid like an Equilateral Triangle

```
Binclude ciostreams
using namespace std;
int main()
{
  int k, n;
  cout << "Enter the number of rows : ";
  cin >> n;
  cout << "";
  for (int i=1; i<-n; i++)
  {
    for (int j=1; j<-n:i; j++)
    cout << "";
    for (j=1,k=i-1; j<-2*i-1; j++,k--)
    {
        if (l || j < k)
            cout << j;
        else
        cout << "";
    }
    cout << "";
}

cout << endl;
cout << "";
}
}
return 0;
}
</pre>
```

(A) solution txt nake

3. Left Triangle star Pattern

```
E.g., For N = 5
...
...
...
...
```

```
finclude <iostream>
using namespace std;

int main() {
    // size of the triangle
    int size = N;
    // loop to print the pattern
    for (int i = 0; i < size; i++) {
        // print column
        for (int j = 0; j < i; j++) {
            cout << "**";
        }
        cout << "\n";
    }
    return 0;
}</pre>
```

solution.txt 0.3KB

4. Reverse Pyramid star pattern.

```
#include <iostream>
using namespace std;

int main() {
    // size of the pyramid
int size; cin>>size;
    for (int i = 0; i < size; i++) {
        // print spaces
        for (int i = 0; i < size; i++) {
        // print spaces
        for (int i = 0; i < size; i++) {
        // print spaces
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        // print spaces
        for (int i = 0; i < size; i++) {
        // print spaces
        for (int i = 0; i < size; i++) {
        // print
```

solution.txt 0.3KB

5. Reverse Pyramid star pattern.

```
Binclude clostream
using namespace std;

int main() {
   // heart star pattern
int size;
   clossXize;
   for (int i = dize / 2; i < size; i *= 2) {
        // write first spaces
        for (int i = dize / 2; i < size; i *= 2) {
        // write first spaces
        for (int j = 1; j < size - 1; j *= 2) {
        cont << "";
        }
        // print first stars
        for (int j = 0; j < i * + 1; j **) {
        cont << "";
        }
        // print second spaces
        for (int j = 1; j < size - 1 * 1; j **) {
        cont << "";
        // cont << "n";
        // lower part
        // source of space
        for (int j = 1; j < size - 1; j **) {
        cont << "";
        // lower part
        // source (size)
        // cont << "";
        }
        for (int j = 1; j < size - 1; j **) {
        cont << "";
        }
        for (int j = 1; j < size - 1; j **) {
        cont << "";
        }
        return 0;
    }
}</pre>
```

solution.txt 0.8KB

6. Convert given Binary number to Decimal.

```
int binaryToDecimal(int b){
   int ans;
   int c=0;
   while(b){
      ans=(b % 10) * (1 << c++);
      b=10;
   }
   return ans;
}</pre>
```

solution.txt 0.1KB

## 7. Simple Calculator.

```
#Include <iostream>
using namespace std;

int main() {
    char open;
    float main, num2;
    cout << "Enter an operator (*, -, *, /): ";
    cin >> open;
    cout << "Enter two numbers: " << endl;
    cin >> mum1 >> mum2;

suitch (oper) {
    case *:
        cout << mum1 << " + " << num2 << " - " << num1 + num2;
    case ::
        cout << num1 << " - " << num2 << " - " << num1 + num2;
    case ::
        cout << num1 << " - " << num2 << " - " << num1 - num2;
    case /:
        cout << num1 << " - " << num2 << " - " << num1 - num2;
    case /:
        cout << num1 << " - " << num2 << " - " << num1 / num2;
    default:
        // operator is doesn't match any case constant (*, -, *, /)
        cout << referror! The operator is not correct";
        break;
    }
    return 0;
}</pre>
```

solution.txt 0.8KB