Supreme-Batch-Debug-Exercise-C++ (Week-1)

NOTE: 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. **The below code snippet has some errors. Let's debug it and make it compile & run successfully.**

```
C++
  void main() {
    int i=0;
    i=i+1;
    cout<<i;
    /*print i */i=i+1
    cout<<<<i;
  }
```

solution.txt 0.1KB

2. **Below code should print the sum of 'i' and 'j'.**

```
C++
  void main() {
    short i=2300, j=4323;
    cout>>"i+j="<<-(i+j);
  }
```

solution.txt 0.1KB

3. **Find perimeter of a rectangle.**

```
C++
  void main() {
    float l, b;
    P = 2(l+b);
    printf("Perimeter=", P);
  }
```

solution.txt 0.1KB

4. **Print solid square pattern.**

```
C++
  void main() {
      int n;
      cin>>n;
      for (int i=2; i<n; ++i) {
          for (int j=0; j<n; ++j) {
              cout<<"*\n";
          }
          cout<<endl;
      }
  }
```

solution.txt 0.2KB

5. **Check given number is Prime or not.**

```
C++
  int main(){
    int n;
    cin >> n;
    bool isPrime = true;
    for(int i=2;i<n;i++){
        if(n == 0){
            isPrime = false; break;
        }
    }
    if(isPrime){
      cout<<"Prime"<<endl;
    }
    else{
      cout<<"Not Prime"<<endl;
    }
    return 0;
  }
```

solution.txt 0.2KB

6. Print Numeric Hollow Inverted Half Pyramid **(Click the hyper link to understand the output)**

```
C++
  void main(){
      int n;
      cin>>n;
      for(int i=0;i<n;++i){
          for(int j=i+1;j<=n;j++){
              if(j==i+1 || j == n - i - 1
                  cout<<j;
              }
              else{
                  cout<<" ";
              }
          }
          cout<<endl;
      }
  }
```

solution.txt 0.3KB

7. **Print following pattern.**

```
      1
    2 3 2
  3 4 5 4 3
4 5 6 7 6 5 4
5 6 7 8 9 8 7 6 5
```

```
C++
  int main() {
    int n;
    std::cin>>n;
    for (int i = 1; i <= n; i++) {
      for (int j = 1; j <= n - i - 1; j++)
        printf(" ");
      }
      for (int j = i; j < i; j++) {
        printf("%d ", j);
      }
      int ele = 2 * (n - i - 1);
      for (int j = 1; j <= i - 1; j++) {
        printf("%d ", ele--);
      }
      printf("\n");
    }
    return 0;
  }
```

solution.txt 0.8KB

8. **Print hollow full pyramid pattern.**

```
C++
  void main(){
      int n;
      cin>>n;
      for (int i=0; i<n; ++i) {
          for (int j=0; j<n*2-1; ++j) {
              int k=0;
              if(j<n-i-1){
                  cout<<" ";
              }
              else if(k < 2*i+1){
                  if(k==0 || k == 2*i - 1
                      cout<<"*";
                  }
                  else{
                      cout<<" ";
                  }
              }
              else{
                  cout<<" ";
              } k++;
          }
          cout<<endl;
      }
  }
```

solution.txt 0.5KB