

C++ Programming

Printing Homework

Mostafa S. Ibrahim

Teaching, Training and Coaching since more than a decade!

Artificial Intelligence & Computer Vision Researcher

PhD from Simon Fraser University - Canada

Bachelor / Msc from Cairo University - Egypt

Ex-(Software Engineer / ICPC World Finalist)



Homework 1#: Guess the run-time output

```
02_homework1.cpp
1 #include<iostream>
2 using namespace std;
3
4 int main()
5 {
6     cout<<"\n\nGuess the "
7         <<"output\n---\n";
8
9     cout<<10+20-5<<endl;
10    cout<<"14/2"<<"\n";
11    cout<<17-10<<"\n";
12    cout<<"endl";
13    cout<<"\nPractice makes perfect";
14
15    //cout<<"The way to get started is to quit talking and begin doing";
16
17    return 0;
18
19    cout<<"\n\nBye\n\n";
20 }
21
```

- Pass over the code line by line
- Execute the line
- What is the output of this code?

Homework 2#: Write code to print the following

```
Problems Tasks Console
<terminated> ztemp [C/C++ Application]
*
* *
* * *
* * * *
* * * * *
```

```
Problems Tasks Console
<terminated> ztemp [C/C++ Application]
      *
     * * *
    * * * *
   * * * * *
  * * * * *
 * * * * *
* * * * *
```

- Write a code to each output

```

  *
 * * *
* * * * *
 * * *
  *
```

```

      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
```

```

      1
    1 1
  1 2 1
1 3 3 1
1 4 6 4 1
1 5 10 10 5 1
```

Homework #3: Find all errors and fix them

```
1 #include<stream
2 using namespace STD
3
4
5 cout <<"work smart not hard\n";
6
7
8 int maIN() {
9
10
11 cout << "Children must be taught how to think, not what to think"
12 cout << "We worry about what a child will become "tomorrow", yet we forget that he is someone today\n";
13 cout << "Children are not things to be molded"< , but are people to be unfolded\n";
14 cout << "Each day of our lives we make deposits in the memory banks of our children."<<end;
15 cout << "It is easier to build strong children than to repair broken men"<<"\n";
16 cout >> "Children need models rather than critics\n";
17
18 out<<"Children have never been very good at listening to their elders, but they have never failed to imitate them";
19
20 cout < "Children are our most valuable resource\n";
21
22
```

“Acquire knowledge and impart it to the people.”

“Seek knowledge from the Cradle to the Grave.”