COLLEGE OF ENGINERING AND COMPUTER STUDIES

PERFORMANCE TASK #

OE4

Subject Code / Description
We'd like to see how well you can use the for loop, so now we want you to draw a "Postcard from Gizah" i.e. create a view of a famous location: a few famous pyramids.

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Course & Section
CS 1-1

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TABLE OF CONTENTS

I. INTRODUCTION

A. Problem Description

Your program should ask the user about a single pyramid's height (h, 2 < h < 9) and then create a picture like the one below

B. Objectives

- using nested for loops;
- building properly formatted output

II. CONCEPTUAL FRAMEWORK

INPUT	PROCESS	OUTPUT
//Balatucan Adrian Martinez //Activity Name: OE4 //Description: #include <iostream> using namespace std; int main() { int enter, l, r, h; cout << "Enter your preferred triangle : "; cin >> enter;	For loop statement If else statement	* * * * * * * * * ***** ***** ***** ********** ********** **********

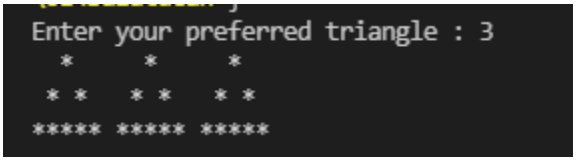
```
for (int r = 1; r
<= enter; r++)
{
for (int l =
1; l <= (enter - r);
l++)
{
cout << " ";
}
for (int h =
1; h <= r * 2 - 1;
h++)
{
if (h == 1 ||
h == r * 2 - 1)
{
cout << "*";
}
else if (r ==
enter)
{
cout << "*";
}
else
{
cout << " ";
}
}
cout << " ";
for (int l =
1; l <= (enter - r);
l++)
{
cout << "  ";
}
for (int h =
1; h <= r * 2 - 1;
h++)
{
if (h == 1 ||
h == r * 2 - 1)
{
cout << "*";
```

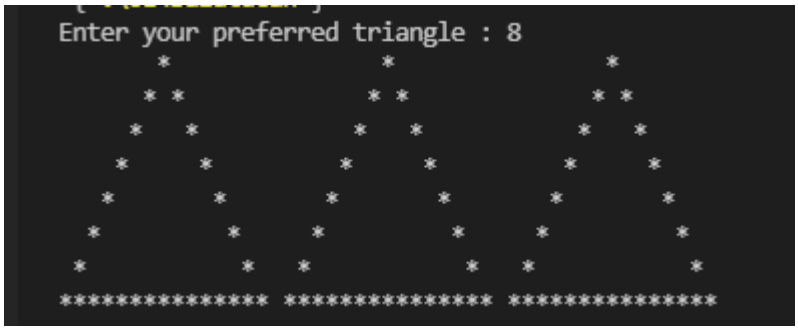
```
}
else if (r ==
enter)
{
cout << "*";
}
else
{
cout << " ";
}
}
cout << " ";
for (int l =
1; l <= (enter - r);
l++)
{
cout << "  ";
}
for (int h =
1; h <= r * 2 - 1;
h++)
{
if (h == 1 ||
h == r * 2 - 1)
{
cout << "*";
}
else if (r ==
enter)
{
cout << "*";
}
else
{
cout << " ";
}
}
cout <<endl;
}
return 0;
}
```

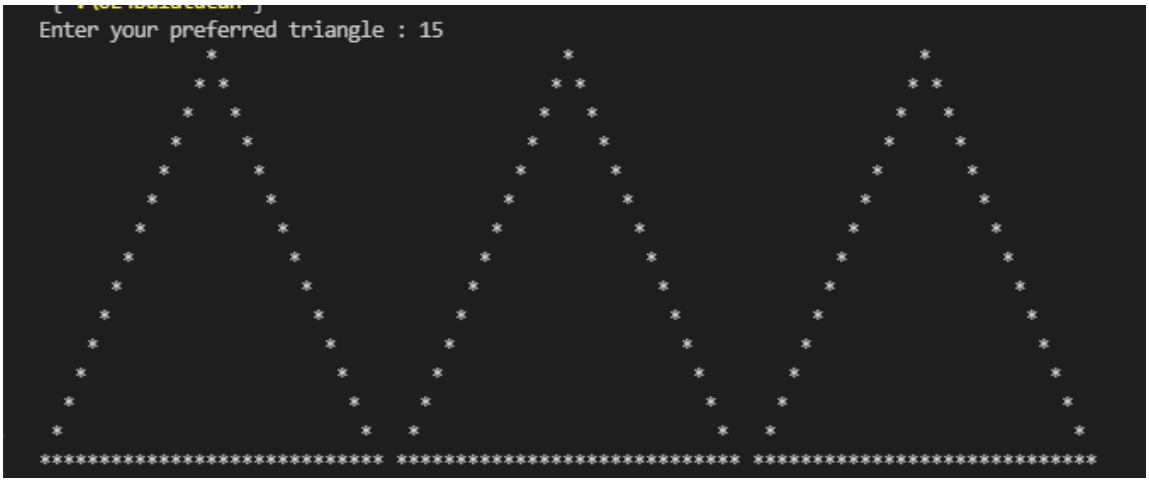
III. I/O SCREEN SHOTS

```
//Balatucan Adrian Martinez
//Activity Name: OE4
//Description:
#include <iostream>
using namespace std;

int main()
{
    int enter, l, r, h;


    cout << "Enter your preferred triangle : ";
    cin >> enter;


    for (int r = 1; r <= enter; r++)
    {
        for (int l = 1; l <= (enter - r); l++)
    {
    cout << " ";
    }
        for (int h = 1; h <= r * 2 - 1; h++)
    {
        if (h == 1 || h == r * 2 - 1)
    {
    cout << "*";
    }
        else if (r == enter)
    {
    cout << "*";
    }
        else
    {
    cout << " ";
    }
    }
    cout << " ";
        for (int l = 1; l <= (enter - r); l++)
    {
    cout << "  ";
    }
        for (int h = 1; h <= r * 2 - 1; h++)
    {
        if (h == 1 || h == r * 2 - 1)
    {
    cout << "*";
    }
        else if (r == enter)
    {
```

```
    {
    cout << "*";
    }
        else
    {
    cout << " ";
    }
    }
    cout << " ";
        for (int l = 1; l <= (enter - r); l++)
    {
    cout << "  ";
    }
        for (int h = 1; h <= r * 2 - 1; h++)
    {
        if (h == 1 || h == r * 2 - 1)
    {
    cout << "*";
    }
        else if (r == enter)
    {
    cout << "*";
    }
        else
    {
    cout << " ";
    }
    }
    cout <<endl;
    }
    return 0;
}
```


Enter your preferred triangle : 3


Enter your preferred triangle : 8


Enter your preferred triangle : 15

IV. PROGRAM SOURCE CODE (Main Logic Only)

```
//Balatucan Adrian Martinez
//Activity Name: OE4
//Description: Create a postcard from Gizah, using for loop
#include <iostream>
using namespace std;

int main()
{
   int enter, l, r, h;


   cout << "Enter your preferred triangle : ";
   cin >> enter;


   for (int r = 1; r <= enter; r++)
   {
      for (int l = 1; l <= (enter - r); l++)
   {
   cout << " ";
   }
      for (int h = 1; h <= r * 2 - 1; h++)
   {
      if (h == 1 || h == r * 2 - 1)
   {
   cout << "*";
   }
      else if (r == enter)
   {
   cout << "*";
   }
      else
   {
   cout << " ";
   }
   }
   cout << " ";
      for (int l = 1; l <= (enter - r); l++)
   {
   cout << "  ";
   }
```

```
    for (int h = 1; h <= r * 2 - 1; h++)
  {
    if (h == 1 || h == r * 2 - 1)
  {
  cout << "*";
  }
    else if (r == enter)
  {
  cout << "*";
  }
    else
  {
  cout << " ";
  }
  }
  cout << " ";
    for (int l = 1; l <= (enter - r); l++)
  {
  cout << "  ";
  }
    for (int h = 1; h <= r * 2 - 1; h++)
  {
    if (h == 1 || h == r * 2 - 1)
  {
  cout << "*";
  }
    else if (r == enter)
  {
  cout << "*";
  }
    else
  {
  cout << " ";
  }
  }
  cout <<endl;
  }
  return 0;
}
```

V. GitHub ACTIVITY LINK

https://github.com/Agadigi/cpf_lab

VI. LEARNING OUTCOMES

I now learn how to input loops statement to have an output of image

VII. REFERENCES