Write a C++ program to do the following :

1. prompts the user to enter the number of lines to draw a ***triangle*** of stars upside down

1. ask the user to enter an integer from 1-12 and displays equivalent month . **If the user enters an invalid number, print an error message.** And ask him if he want to do it again or to stop
2. calculate x raised to the y power. (i.e. $x^{y}$ ) both numbers are entered from the user
3. Trace the following programs

#include <iostream>

using namespace std;

void main ()

{

 int counter=1,var, result =0;

 while (counter<= 5)

 {

 var= counter\*2;

 cout<<var<<endl;

 result+=var;

 ++ counter;

 }

 cout<<"the final result is " <<result<<endl;

}

#include <iostream>

using namespace std;

void main ()

{ int x=-2;

 while (x<=5)

 { if (x%2 ==0)

 cout << x<<"is even"<<endl;

 else

 cout << x<<"is odd"<<endl;

 ++ x; }}

1. Find and correct the errors in the following segments:
	1. cin>>z;

while ( z >= 0 )

sum += z;

* 1. int c, p;

while(c<=5)

 p \*=c;

 ++c;

* 1. for (x = 100,x >=1;x++);

 cout << x;

* 1. the following code should output odd integers from 999 to 1:

for (x=999;x>=1;x-=1)

 cout << x;

* 1. The following code should print the values 1 to 10.

n = 1;

while ( n < 10 )

cout << ++n << endl;

1. Ask the user to enter 5 numbers then print the largest
2. Chang the previous program to determain the large number for unknown set of numbers .