1.

Outputs would be :

endlendl

grendel

2.

Obtains a value for len and then prints out len amount # oriented diagonally in len amount of lines from bottom left to top right.

3.

#include <iostream>

using namespace std;

int main()

{

int len;

cout << "Enter a number: ";

cin >> len;

for (int i = 0; i < len; i++)

{

int k = i + 1;

while (k < len)

{

cout << (" ");

k = k + 1;

}

cout << "#" << endl;

}

}

4.

#include <iostream>

using namespace std;

int main()

{

int month = 12;

switch (month)

{

case 3:

case 9:

cout << "equinox";

break;

case 6:

cout << "summer solstice";

break;

case 12:

cout << "winter solstice";

break;

default:

cout << "nothing special";

}

}