Question 1.
Write a while loop that lets the user enter a number. The number should be multiplied by 10, and the result stored in the variable product. The loop should iterate as long as product contains a value less than 100.

Question 2.
Write a nested loop that displays 10 rows of '#' characters. There should be 15 '#' characters in each row.

Question 3.
Convert the following while loop to a for loop:

```cpp
int count = 0;
while( count < 50 )
{
    cout << "count is " << count << endl;
    count++;
}
```

Question 4.
Write a program that will predict the size of a population of organisms. The program should ask the user for the starting number of organisms, their average daily population increase (as a percentage), and the number of days they will multiply. A loop should display the size of the population for each day.

*Input Validation: Do not accept a number less than two for the starting size of the population. Do not accept a negative number for average daily population increase. Do not accept a number less than one for the number of days they will multiply.*

Question 5.
What are the advantages of breaking your application’s code into several small procedures?