

Assignment: 5

Program for create random sentence from given data object, verb and adverb.

C++

```
#include <iostream>
#include <string.h>
#include <stdlib.h>
#include <ctype.h>
#include <time.h>

using namespace std;
char *object[] = { "waves", "big yellow flowers", "slugs", "any" };
char *verb[] = { "sigh", "portend like", "die" };
char *adverb[] = { "warily", "grumpily", "" };

main()
{
    const int words = 3;
    const int sentences = 3; // Number of sentences to generate
    string space = " "; // Space string
    srand(time(NULL));
    string sentence = "";
    for (int i = 0; i < sentences; i++)
    {
        sentence = space + object[rand()%words] + space + verb[rand()%words] + space +
adverb[rand()%words];
        cout<<"The"<<sentence<<" tonight."<<endl;
        sentence = "";
    }
}
```

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random.cpp - Visual Studio Code

random.cpp X

C:\Users\STSC\Downloads> random.cpp > ...

1 #include <iostream>

2 #include <string.h>

3 #include <stdlib.h>

4 #include <ctype.h>

5 #include <time.h>

6

7 using namespace std;

8 char *object[] = { "waves", "big yellow flowers", "slugs", "any" };

9 char *verb[] = { "sigh", "portend like", "die"};

10 char *adverb[] = { "warily", "grumpily", ""};

11

12 |

13 main()

14 {

15 const int words = 3;

16 const int sentences = 3; // Number of sentences to generate

17 string space = " "; // Space string

18 srand(time(NULL));

19 string sentence = "";

20 for (int i = 0; i < sentences; i++)

21 {

22 sentence = space + object[rand()%words] + space + verb[rand()%words] + space+ adverb[rand()%words];

23 cout<<"The"<<sentence<<" tonight."<<endl;

24 sentence = "";

25 }

26 }

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Code

The big yellow flowers sigh grumpily tonight.

The big yellow flowers sigh warily tonight.

The slugs sigh tonight.

[Done] exited with code=0 in 0.826 seconds

Ln 12, Col 2 Tab Size: 4 UTF-8 CRLF C++ Win32

JAVA

```
import java.util.Random;
public class random{

    final static String space = " ";
    final static String period = ".";

    static Random r = new Random();
    public static void main( String args[] ){

        String object[] = { "waves", "big yellow flowers", "slugs"};
        String adverb[] = { "warily", "grumpily", "a"};
        String verb[] = { "sigh", "portend like ", "die"};
        String preposition[] = { "to", "from", "over", "under", "on" };
        int sentences = 3;

        String sentence;
        sentence = object[rand()];
        char c = sentence.charAt(0);

        for(int i =0;i<sentences;i++)
        {
            sentence = (space + object[rand()] + space + verb[rand()] + space+ adverb[rand()]);
            System.out.println("The"+sentence+ " tonight.");
            sentence = "";
        }
    }
    static int rand(){
        int temp = r.nextInt() % 3;
        if ( temp < 0 )
            temp += 3;
        return temp;
    }
}
```

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Result

```
1 import java.util.Random;
2 public class random{
3
4     final static String space = " ";
5     final static String period = ".";
6
7     static Random r = new Random();
8
9     public static void main( String args[] ){
10
11         String object[] = { "waves", "big yellow flowers", "slugs"};
12         String adverb[] = { "warily", "grumpily", "a"};
13         String verb[] = { "sigh", "portend like ", "die"};
14         String preposition[] = { "to", "from", "over", "under", "on" };
15         int sentences = 3;
16
17         String sentence;
18         sentence = object[rand()];
19         char c = sentence.charAt(0);
20
21         for(int i =0;i<sentences;i++){
22             {
23                 sentence = (space + object[rand()] + space + verb[rand()] + space +
24                     adverb[rand()]);
25                 System.out.println("The"+sentence+ " tonight.");
26                 sentence = "";
27             }
28         }
29
30         static int rand(){
31             int temp = r.nextInt() % 3;
32             if ( temp < 0 )
33                 temp += 3;
34             return temp;
35         }
36     }
```

\$javac random.java

\$java -Xmx128M -Xms16M random

The slugs portend like grumpily tonight.
The big yellow flowers portend like warily tonight.
The big yellow flowers sigh a tonight.