

Activity No. 1.3

Writing First Program using C++ Language

Course Code: CPE007	Program: Computer Engineering
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6. Output

Exercise 4.1

```
1 // This outputs my name, course, and section.
2 #include <iostream>
3 using namespace std;
4
5 int main() {
6     cout << "Lopez, Andrei Dion C." << endl;
7     cout << "CPE007" << endl;
8     cout << "CPE11S1";
9
10    return 0;
11 }
```

```
Lopez, Andrei Dion C.
CPE007
CPE11S1
```

```
=== Code Execution Successful ===
```

Exercise 4.2

```
1 // This outputs my name three times
2 #include <iostream>
3 using namespace std;
4
5 int main() {
6     cout << "Lopez, Andrei Dion C." << endl;
7     cout << "Lopez, Andrei Dion C." << endl;
8     cout << "Lopez, Andrei Dion C.";
9
10    return 0;
11 }
```

```
Lopez, Andrei Dion C.
Lopez, Andrei Dion C.
Lopez, Andrei Dion C.
```

```
=== Code Execution Successful ===
```

7. Supplementary Activity

Activity 1

```
1 #include <iostream>
2 int main()
3 {
4     cout << "The value of five is:" << 5int;
5     return 0;
6 }
7
```

In this code there are multiple errors first being the start of **line 4**.

Since we are not using the **"using namespace std;"** directive this line should start with **"std::cout"** so that it would not output an error.

The next error in this code is also in **line 4** which is the text **"5int"**, the text written wrong but it should be written as **"5"**.

Correct program input and output:

```
1 #include <iostream>
2 int main()
3 {
4     std::cout << "The value of five is: " << 5;
5
6     return 0;
7 }
```

Output

The value of five is: 5

=== Code Execution Successful ===

Activity 2

```
1
2 int main()
3 {
4     cout << "The value of six is: " << 16,0-10;
5     return 0;
6 }
7
```

In this code it is missing the preprocessor directive **"#include <iostream>"** which tells the compiler what library to use for the input output process.

It is also missing the **"using namespace std;"** directive which will cause the cout to output as an error

lastly the numbers in **line 4** should be written as **"6"** and not **"16, 0-10"**

Correct program input and output

```
1 #include <iostream>
2 int main()
3 {
4     std::cout << "The value of six is: " << 6;
5
6     return 0;
7 }
8
```

Output

The value of six is: 6

=== Code Execution Successful ===

Activity 3

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int simpleVariable = 10;
7     cout << "The value of ten is: " << othervariable);
8     return 0;
9 }
```

In this number the error is very simple as the error is located at **line 7** “**othervariable)**”, this should be replaced with “**simpleVariable**”

Correct program input and output

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int simpleVariable = 10;
7     cout << "The value of ten is: " << simpleVariable;
8     return 0;
9 }
10
```

Output

The value of ten is: 10

=== Code Execution Successful ===

Activity 4

```
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      int 60seconds = 60;
7      int 60minutes = 50;
8      cout << "One hour is: " << 60seconds * 60minutes;
9      return 0;
10 }
11
```

Here the error is in the 2 variables and one of their values at **line 6 and 7**, since we can not have numerical values as our integer names we must remove it or replace it.

the value for the 2nd integer “**minutes**” should be **60** and not **50** for it to compute to 3600 seconds
we must also add ‘ << “ **seconds**” ‘ after the operation to specify what we are exactly computing for.

Correct input and output

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int seconds = 60;
6      int minutes = 60;
7
8      cout << "One hour is: " << seconds * minutes << " seconds";
9
10     return 0;
11 }
```

Output

One hour is: 3600 seconds

=== Code Execution Successful ===

Activity 5

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int ip Part1 = 027;
6     int ip Part2 = 0;
7     int ip Part3 = 0;
8     int ip Part4 = 1;
9
10    cout << "local host IP is: " << ip Part1, ip Part2, ip Part3
11        , ip Part4;
12
13    return 0;
14 }
```

For this one we must first add a new preprocessor directive to allow us to put a period in between integers called “<string>”.

Next we must fix the errors on each integer in lines 5 to 8 and remove the space in between ip and part.

Then we will change the value on the first integer to show 127 instead of 027.

Then using the new library we will add a new line of code that will treat the integers as a string which is:

“string ipWhole = to_string(ipPart1) + “.” + std::to_string(ipPart2) + “.” + std::to_string(ipPart3) + “.” + std::to_string(ipPart4);”

and change the variables in line 10 to “ipWhole” to show the desired text

Correct input and output

```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4
5 int main() {
6     int ipPart1 = 127;
7     int ipPart2 = 0;
8     int ipPart3 = 0;
9     int ipPart4 = 1;
10
11
12    string ipWhole = to_string(ipPart1) + “.” + std::to_string
13        (ipPart2) + “.” + std::to_string(ipPart3) + “.” + std
14        ::to_string(ipPart4);
15    cout << "local host IP is: " << ipWhole;
16
17    return 0;
18 }
```

Output

```
local host IP is: 127.0.0.1
```

```
=== Code Execution Successful ===
```

8. Conclusion

I have learnt to create programs using the C++ Language, run those programs through a compiler, and debug errors in given codes that output as errors instead of running smoothly.

9. Assessment Rubric