

Activity No. 1.3

Writing First Program using C++ Language

Course Code: CPE010	Program: Computer Engineering
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6. Output

Exercise 4.1 : Try to create a simple program using C++ language that outputs your whole name. Using the new line syntax, output your program and the course and section.

```
//This outputs my name, course and section
#include <iostream>
using namespace std;

int main() {
    cout << "Marjorie Tesoro-Escanan"<<endl;
    cout << "CPE007"<<endl;
    cout << "CPE11S1";
    return 0;
}
```

```
Marjorie Tesoro-Escanan
CPE007
CPE11S1
```

```
1  #include <iostream>
2
3  int main() {
4
5      std::cout << "Paula Esguerra " << std::endl;
6      std::cout << "CPE007 " << std::endl;
7      std::cout << "CPE11S1" << std::endl;
8      return 0;
9  }
10
11
```

```
Paula Esguerra  
CPE007  
CPE11S1
```

```
-----  
Process exited after 0.1726 seconds with return value 0  
Press any key to continue . . . |
```

Start

```
Input Name  
Input Subject  
Input Section  
Return 0
```

End

Exercise 4.2: Write a program in the "C++" language that prints your name 3 times. Remember to include a return statement and make proper use of the main function.

```
//This outputs my name, course and section  
#include <iostream>  
using namespace std;  
  
int main() {  
    cout << "Marjorie Tesoro-Escanan"<<endl;  
    cout << "Marjorie Tesoro-Escanan"<<endl;  
    cout << "Marjorie Tesoro-Escanan";  
    return 0;  
}
```

```
1  #include <iostream>  
2  
3  int main() {  
4  
5      std::cout << "Paula Esguerra " << std::endl;  
6      std::cout << "Paula Esguerra " << std::endl;  
7      std::cout << "Paula Esguerra " ;  
8      return 0;  
9  }  
10  
11
```

```
Paula Esguerra
Paula Esguerra
Paula Esguerra
-----
Process exited after 0.1665 seconds with return value 0
Press any key to continue . . . |
```

Start

Input Name
Input Name
Input Name
Return 0

End

7. Supplementary Activity

1. **Check the program below.** Find all possible compilation errors and logic errors. Fix them. Your version of the program must print the same result as the expected output. Before you use your compiler, try to find the errors only by manual code analysis.

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

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

```
The value of five is : 5
```

```
-----  
Process exited after 0.3291 seconds with return value 0  
Press any key to continue . . . |
```

Start

Input " The value of five is :"
Input 5
Return 0

End

The error was you have to remove "int" it isn't needed in the program, also, it lacks "std" " after cout, since it doesn't have namespace, you have to manually put std in every start and ending. And then, the parenthesis is inappropriate, it isn't need to get the output.

2. **Check the program below.** Find all possible compilation errors and logic errors. Fix them. Your version of the program must print the same result as the expected output. Before you use your compiler, try to find the errors only by manual code analysis.

```
int main()  
{  
    cout<<"The value of six is:"<<16,0-10-;  
    return 0;  
}
```

Example output

The value of six is: 6

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

The value of six is : 6

Process exited after 0.02414 seconds with return value 0
Press any key to continue . . . |

Start

Input " The value of six is:"

Input 6

Return 0

End

The error was to have the input 6, you need to remove "16, 0-10-" and replace 6. Then "std::" is needed after cout, since namespace isn't put.

3. Check the program below. Find all possible compilation errors and logic errors. Fix them. Your version of the program must print the same result as the expected output. Before you use your compiler, try to find the errors only by manual code analysis. If you want to improve the variable names, then do so, but remember that variable names have to be as descriptive as possible, and also as short as possible.

```
#include <iostream>
using namespace std;

int main()
{
    int simpleVariable = 10;
    cout<<"The value of ten is:"<<otherVariable);
    return 0;
}
```

Example output

The value of ten is: 10

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

C:\Users\Paramount Laptop 5

The value of ten is: 10

Process exited after 0.1703 seconds with return value 0

Press any key to continue . . .

Start

Input "simpleVariable"
Set to 10
Input "The value of ten is:"
Return 0

End

The error was the variable name is incorrect, so change it to simpleVariable for the program to execute 10 as the output.

4. Check the program below. Find all possible compilation errors and logic errors. Fix them. Your version of the program must print the same result as the expected output. Before you use your compiler, try to find the errors only by manual code analysis. If you want to improve the variable names, then do so, but remember that variable names have to be as descriptive as possible, and also as short as possible.

```
#include <iostream>
using namespace std;

int main()
{
    int 60seconds = 60;
    int 60minutes = 50;
    cout<<"One hour is "<<60seconds * 60minutes);
    return 0;
}
```

Example output

One hour is 3600 seconds

```

1  #include <iostream>
2
3  int main() {
4
5      int seconds = 60;
6      int minutes = 60;
7
8      int onehour = seconds * minutes;
9
10     std::cout << "One hour is " << onehour << std::endl;
11
12     return 0;
13 }
14

```

One hour is 3600

 Process exited after 0.1518 seconds with return value 0
 Press any key to continue . . . |

Start

Input "seconds"
 Set to 60
 Input "minutes"
 Set to 60
 Input "onehour = seconds * minutes"
 Input "one hour is"
 Return 0

End

The error was in the rules of integers, words are only accepted, so remove the numbers, then change the set number of minutes into 60 to have the output as 3600 when it is multiplied. Remove "seconds multiplied to minutes" in the cout lane, put it before the cout and add an integer before it. The parenthesis isn't needed.

5. Check the program below. Find all possible compilation errors and logic errors. Fix them. Your version of the program must print the same result as the expected output. Before you use your compiler, try to find the errors only by manual code analysis. If you want to improve the variable names, then do so, but remember that variable names have to be as descriptive as possible, and also as short as possible.

```
#include <iostream>
using namespace std;

int main()
{
    int ip Part1 = 027;
    int ip Part2 = 0;
    int ip Part3 = 0;
    int ip Part4 = 1;
    cout<<"Localhost IP is "<< ip Part1, ip Part2, ip Part3, ip Part4);
}
```

Example output

Localhost IP is 127.0.0.1

```
1 #include <iostream>
2
3 int main() {
4
5     int ipPart1 = 127;
6     int ipPart2 = 0;
7     int ipPart3 = 0;
8     int ipPart4 = 1;
9
10    std::cout << "Localhost IP is " << ipPart1 << "." << ipPart2 << "." << ipPart3 << "." << ipPart4 << std::endl;
11
12    return 0;
13 }
14
```

Localhost IP is 127.0.0.1

Process exited after 0.1602 seconds with return value 0
Press any key to continue . . .

Start

Input ipPart1
Set to 127
Input ipPart2

Set to 0
Input ipPart3
Set to 0
Input ipPart4
Set to 1
Input "Localhost IP is"
Return 0

End

The error was I considered removing the space between ip and part, so it would be considered a title/name. Then, to have the 127 as the output, you have to change 027 to 127. And to have the decimal in between, you better add "." In between the titles.

9. Assessment Rubric