MA122 -Computer Programming and Applications

My first program

Variables

Input

Function 1

MA122 - Computer Programming and Applications

Indian Institute of Space Science and Technology

January 13, 2017

	Lecture 2
MA122 - Computer Programming and Applications	1 My first program
My first program	
Variables Input Function 1	2 Variables
	3 Input
	4 Function 1

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My first program

MA122 -Computer Programming and Applications

My first program

Variables

Input

-unction 1

```
1 #include <iostream> // a PREPROCESSOR directive
2 int main() // function header
  {
                        // start of function body
3
  using namespace std;
4
  // make definitions visible
5
6
7 cout << "Come up and C++ me some time."; // message</pre>
8
  cout << endl; // start a new line</pre>
9
10
  cout << "You wont regret it!" << endl;</pre>
11
   // more output
12
13
  return 0; // terminate main()
14
15
16 } // end of function body
```

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Lecture 2

MA122 -Computer Programming and Applications

My first program

Variables

Input Functior

1 My first program

2 Variables

3 Input

4 Function 1

My first variable

```
MA122 -
          1 #include <iostream>
 Computer
Programming
          2 int main()
   and
Applications
            ſ
          3
                using namespace std;
          4
                 int carrots; // declare an integer variable
          5
                 carrots = 25; // assign a value to the variable
          6
Variables
          7
                 cout << "I have ";
          8
                 cout << carrots; //display the value of the
          9
                     variable
                 cout << " carrots.";</pre>
          10
                 cout << endl:
          11
                 carrots = carrots - 1; // modify the variable
          12
          13
                 cout << "Crunch, crunch. Now I have " << carrots
          14
                     << " carrots." << endl;
          15
                return 0;
            }
          16
```

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MA122 - Computer Programming and Applications	
My first program	1 My first program
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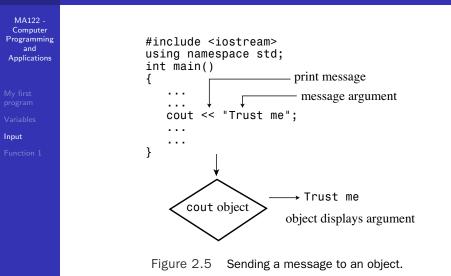
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cin

MA122 - Computer	1	<pre>#include <iostream></iostream></pre>
Programming and	2	<pre>int main()</pre>
Applications	3	{
	4	using namespace std;
	5	
	6	<pre>int carrots;</pre>
	7	
Input	8	<pre>cout << "How many carrots do you have?" << endl;</pre>
	9	
	10	<pre>cin >> carrots; // C++ input</pre>
	11	<pre>cout << "Here are two more. ";</pre>
	12	carrots = carrots + 2;
	13	
	14	<pre>// the next line concatenates output</pre>
	15	cout << "Now you have " << carrots << " carrots."
		<< endl;
	16	return 0;
	17	}

20

cin and cout: A touch of class



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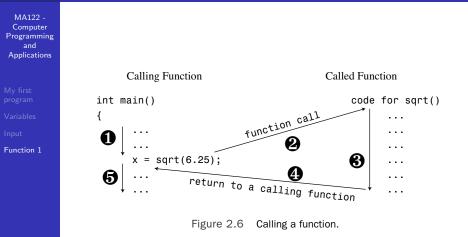
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MA122 - Computer Programming and Applications	
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	4 Function 1

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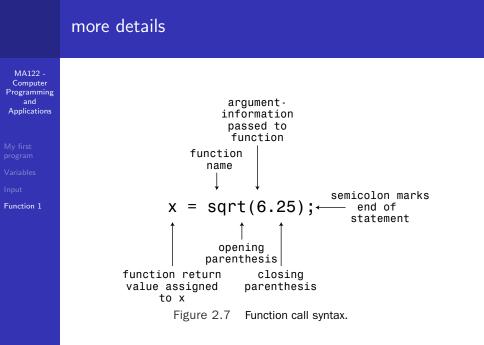
sqrt

```
MA122 -
          1 // sqrt.cpp -- using the sqrt() function
 Computer
Programming
          2 #include <iostream>
   and
Applications
          3 #include <cmath> // or math.h
          4 int main()
            {
          5
                using namespace std;
          6
                double area;
          7
                 cout << "Enter the floor area, in square feet, of
          8
Function 1
                     your home: ";
                 cin >> area;
          9
                double side;
          10
                 side = sqrt(area);
          11
                 cout << " Thats the equivalent of a square " <<
          12
                     side
                 << " feet to the side." << endl;
          13
                 cout << "How fascinating!" << endl;</pre>
          14
          15
                return 0;
            }
          16
```

explanation



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