```
#include <iostream>
#include <string>
#include <iomanip>
using namespace std;
int main()
{
//Part 1
double width,
       length,
       area,
       perimeter;
cout << "\t" << setw(16) << setfill('-') << "" << "\n";</pre>
cout << "\t" << "|" << setw(14) << setfill(' ') << "" << "|" << "\n";
cout << "\t" << "|" << setw(14) << setfill(' ') << "" << "|" << " width" <<</pre>
"\n";
cout << "\t" << "|" << setw(14) << setfill(' ') << "" << "|" << "\n";</pre>
cout << "\t" << setw(16) << setfill('-') << "" << "\n";</pre>
cout << "\t" << setw(5) << setfill(' ') << "" << "length" << "\n";</pre>
cout << "Enter the measure of the width: ";</pre>
cin >> width;
cout << "Enter the measure of the length: ";</pre>
cin >> length;
area = length * width;
perimeter = (2 * length) + (2 * width);
cout << "\tArea = " << fixed << showpoint << setprecision(2) << area <<</pre>
end1;
cout << "\tPerimeter = " << fixed << showpoint << setprecision(2) <<</pre>
perimeter << endl;</pre>
cout << "\n";</pre>
//Part 2
int num1,
    num2,
    total,
    average;
```

```
cout << "Enter two integer numbers: ";</pre>
cin >> num1 >> num2;
total = num1 + num2;
average = total / 2;
cout << "\t" << num1 << " + " << num2 << " = " << total << endl;</pre>
cout << "\tthe total of " << num1 << " and " << num2 << " is " << total <<</pre>
end1;
cout << "\tand their average is " << average << endl;</pre>
cout << "\n";</pre>
int exam_1,
   exam 2,
   exam_3,
    eAverage;
cout << "I can compute your midterm's average, try me\n";</pre>
cout << "\tEnter your scores in three exams: ";</pre>
cin >> exam_1 >> exam_2 >> exam_3;
eAverage = ((exam_1 + exam_2 + exam_3)/3);
cout << "\t\tYour average is: " << eAverage << endl;</pre>
cout << "\n";</pre>
string firstName,
       lastName;
char intital;
cout << "Give me your name, I will send you a birthday card\n";</pre>
cout << "\tWhat is your first name: ";</pre>
cin >> firstName;
cout << "\tWhat is your middle intital: ";</pre>
cin >> intital;
cout << "\tWhat is your last name: ";</pre>
cin >> lastName;
```

```
cout << setw(7) << setfill('<') << "" << "Happy Birthday " << firstName <<</pre>
" " << intital << ". " << lastName << setw(7) << setfill('>') << "" <<
"\n";
cout << "\n";</pre>
double drinks,
      chips,
      nuts,
      totalBill;
int numDrinks,
   numChips,
   numNuts;
drinks = 1.25;
chips = 1.09;
nuts = 1.18;
cout << setw(10) << setfill('-') << "" << "MENU" << setw(10) <<</pre>
setfill('-') << "" << endl;
cout << "Drinks" << setw(14) << setfill('.') << "" << drinks << endl;</pre>
cout << "Chips" << setw(15) << setfill('.') << "" << chips << endl;</pre>
cout << setw(3) << setfill(' ') << "" << "How many drinks? ";</pre>
cin >> numDrinks;
cout << setw(3) << setfill(' ') << "" << "How many chips? ";</pre>
cin >> numChips;
cout << setw(3) << setfill(' ') << "" << "How many nuts? ";</pre>
cin >> numNuts:
totalBill = (drinks * numDrinks) + (chips * numChips) + (nuts * numNuts);
cout << "\tYour bill = $" << fixed << showpoint << setprecision(2) <<</pre>
totalBill << endl;</pre>
cout << "\n";
//Part 6
```

## **Program Output:**

```
width
            length
Enter the measure of the width: 23.90
Enter the measure of the length: 44.01
       Area = 1051.84
       Perimeter = 135.82
Enter two integer numbers: 12 14
       12 + 14 = 26
       the total of 12 and 14 is 26
       and their average is 13
I can compute your midterm's average, try me
       Enter your scores in three exams: 88 79 43
               Your average is: 70
Give me your name, I will send you a birthday card
       What is your first name: Donald
       What is your middle intital: J
       What is your last name: Trump
<><<<Happy Birthday Donald J. Trump>>>>>
------MENU-----
Drinks.....1.25
Chips.....1.09
Nuts....1.18
   How many drinks? 2
  How many chips? 1
  How many nuts? 2
       Your bill = $5.95
I can convert temperature from degrees Fahrenheit to degrees Celsius. Try me
       Enter a temperature in Fahrenheit:97
       97.00 Fahrenheit is 36.11 Celsius
```