

```

1
2 The default interactive shell is now zsh.
3 To update your account to use zsh, please run `chsh -s /bin/zsh`.
4 For more details, please visit https://support.apple.com/kb/HT208050.
5 bash-3.2$ g++ *.cpp
6 In file included from main.cpp:1:
7 ./MyHeader.h:100:1: warning: control reaches end of non-void function [-Wreturn-type]
8 }
9 ^
10 1 warning generated.
11 bash-3.2$ ./a.out Ali Eshghi
12 /*****
13 * Perimeter and Area of shapes comparing using
14 * overloading frined functions and class methods
15 *
16 * This program prompts the user to input information for a
17 * shape of square and a shape of triangle. then using the
18 * virtual methods and inheritance of the classes, calculates
19 * the perimeter and area of those shapes, then using the
20 * frined class functions and class methods, the program
21 * compares the area and perimeter of the squares with the
22 * area and perimeter of the triangle. then outputs if any
23 * attributes of these shapes were equal, then again prompts the
24 * user how many units they want to increase the length of both
25 * shapes and again print outs the attribute of the shapes
26 *
27 *
28 * INPUT: square length, triangle sides
29 *
30 * OUTPUT: prints out the perimeter and area of the both shapes
31 *          based on the information that the user put in, the
32 *          result of the comparison of the attributes, and the
33 *          new attributes after the modification
34 *
35 *****/
36 First Name : Ali
37 Last Name : Eshghi
38 Second Character of First Name : l
39 Second Character of Last Name : s
40
41 Enter the length of 1st Square:5
42 Perimeter of Square is 20
43 Area of Square is 25
44 Enter the three sides of 1st triangle:1 4 6
45 Perimeter of Triangle is 11
46 Area of Triangle is nan
47
48
49 Enter the length and width of 2nd square:5
50 Perimeter of Square is 20
51 Area of Square is 25
52 Enter the three sides of 2nd triangle:2 4 5
53 Perimeter of Triangle is 11
54 Area of Triangle is 3.79967
55
56
57 Enter the length and width of 3rd square:4
58 Perimeter of Square is 16
59 Area of Square is 16

```

output.txt

```
60 Enter the three sides of 3rd triangle:3 4 5
61 Perimeter of Triangle is 12
62 Area of Triangle is 6
63
64 Square 1 and Triangle 1 Perimeter Check : Unequal
65
66 Square 2 and Triangle 2 Perimeter Check : Unequal
67
68 Square 1 and Rectangle 2 Area Check : Equal
69
70 Square 2 and Rectangle 3 Area Check : Unequal
71
72 Increase length of Square 1 by how much : 5
73 Length increased by 5 units
74
75 After doing r2 = r2 + 8 :
76 Length increased by 8 units
77
78 After doing cin>>r3 :
79 Enter length : 3
80 Area of Square is 9
81 Area of Square is 9
82
83 After doing cout<<r3 :
84 length of Square : 3
85 Perimeter of Square is 12
86 Area of Rectangle is 27
```