```
1 #include "Shapes.h"
2 #include <cmath>
3
4 # define PI 3.1415926
5
6
8 //
               RECTANGLE
10
11 Rectangle::Rectangle(double x, double y) {
     h = x;
12
     b = y;
13
14 }
15 double Rectangle::area()
                      { return (b * h); }
16 double Rectangle::perimeter() { return (2 * b + 2 * h); }
                     { return h; }
17 double Rectangle::height()
18 double Rectangle::width()
                       { return b; }
19 void Rectangle::rotate() {
20
     double x;
21
     x = b;
22
     b = h;
     h = x;
23
24 }
25
26
27
29 //
                 SOUARE
31
32 Square::Square(double x) : Rectangle(x, x) { }
34
35
CIRCLE
39
40 Circle::Circle(double x)
                    { \mathbf{r} = x; }
41 double Circle::area()
                    { return (r * r * PI); }
42 double Circle::perimeter() { return (2 * PI * r); }
43 double Circle::height() { return (2 * r); }
44 double Circle::width() { return (2 * r); }
```