# Methods - Pseudocode

Import scanner library

use scanner to get the input from the user

create an integer type variable with the name shape

main method

create a do-while loop

do show user list of menu options

display that this is a list of shapes the user can get the area of

display option 1 a square

display option 2 a rectangle

display option 3 a triangle

display option 4 a circle

ask user for their input and set to shape variable

while select does not match one of the available options 1-4

switch case statement

case where number = 1, display the user selected a square

call square method

case where number = 2, display the user selected a rectangle

call rectangle method

case where number = 3, display the user selected a triangle

call triangle method

case where number = 4, display the user selected a circle

call circle method

square method that returns no values

use scanner to get the input from the user

create a double type variable with the name length

display a request to user asking for length of one side

assign input value to length

create a double type variable called area and assign it a value of length squared

display to the user the area of the square is equal to area variable

rectangle method that returns no values

use scanner to get the input from the user

create a double type variable with the name length

create a double type variable with the name height

display a request to user asking for length of one of the long sides

assign input value to length

display a request to user asking for length of one of the short sides

assign input value to height

create a double type variable called area and assign it a value of length \* height display to the user the area of the rectangle is equal to area variable

triangle method that returns no values

use scanner to get the input from the user

create a double type variable with the name height

create a double type variable with the name width

display a request to user asking for height from base to top of the triangle

assign input value to height

display a request to user asking for length of one of the base of the triangle

assign input value to width

create a double type variable called area and assign it a value of 0.5 \* width \* height

display to the user the area of the triangle is equal to area variable

circle method that returns no values

use scanner to get the input from the user

create a double type variable with the name diameter

display a request to user asking for diameter of the circle

assign input value to diameter

create a double type variable with the name radius with a value of 0.5 \* diameter

create a double type variable called area and assign it a value of pi \* radius to the power 2

round area to two decimal places

display to the user the area of the circle is equal to area variable (to 2 decimal places)