**Quiz 4 – ANSWER SHEET**

1. Trace through the following code. In the box provided show everything exactly as it would appear on the output screen.

public class Quiza4{

public void aMethod(int j, int q){

j += 10;

q \*= 3;

System.out.println(“In the method“);

|  |
| --- |
| **m = 5**  **s = 7**  **In the method**  **j = 15**  **q = 21**  **After the method call**  **m = 5**  **s = 7** |

System.out.println(“j = “ + j);

System.out.println(“q = “ + q);

}

}

public static void main(String[] args){

Quiza4 test = new Quiza4();

int m = 5;

int s = 7;

System.out.println(“m = “ + m);

System.out.println(“s = “ + s);

test.aMethod(m,s);

System.out.println(“After the method call“);

System.out.println(“m = “ + m);

System.out.println(“s = “ + s);

}

1. Which of the following could serve as a post condition for the following method?

public int process(double amount){

//precondition: amount represents cost of goods in dollars and cents

//postcondition: <…>

return (int)(amount \* 100)/100;

}

1. Returns the cents portion in amount
2. **Returns the number of whole dollars in amount**
3. Returns amount rounded to the nearest integer
4. Returns amount truncated to the nearest integer
5. Returns amount converted to cents

**Answer:** B

3. Trace through the following code. In the box provided show everything exactly as it would appear on the output screen.

public class Quiz4aQ3{

private int myNum;

public Quiz4aQ3(int n){

myNum = n;

}

public void one(int x){

x += myNum;

print(x, myNum, 0);

}

public void two(int x, int y){

int myNum = 1;

x += myNum;

print(x, y, myNum);

}

public void three(int x, int y, int z){

x += myNum;

int m = x + y + z;

print(x, myNum, m);

}

public void print(int first, int second, int last){

System.out.println(first + “ “ + second + “ “ + last);

}

|  |
| --- |
| **3 2 5**  **10 7 0**  **3 2 5**  **4 2 1**  **3 2 5**  **10 7 17**  **3 2 5** |

}

public static void main(String[] args){

int a = 3;

int b = 2;

int c = 5;

Quiz4aQ3 sample = new Quiz4aQ3(7);

sample.print(a,b,c);

sample.one(a);

sample.print(a,b,c);

sample.two(a,b);

sample.print(a,b,c);

sample.three(a,b,c);

sample.print(a,b,c);

}