2.7

* Comments
* If Statement
* Addition and subtraction
* Innermost
* Variable

2.8

* System.out.println("Display an integer: ”);
* Int a = b + c;
* //performs a sample payroll calculation

2.9

* False
* False
* False
* True

2.10

* X = 10;
* The value of 5 \* 1 is 5;
* X is 5 and y is 1
* 6 is not equal to 5

2.11

b. System.out.print("m = m + 1);

2.12

b. y = a \* x \* x + (5 \* x) + 2;

2.13

* 13
* 14

2.14

* Int num1 = 1;

Int num2 = 2;

Int num3 = 3;

Int num4 = 4;

System.out.println(num1 + “ “ + num2 + “ “ + num3 + “ “ + num4);

* System.out.print(num1 + “ “);

System.out.print(num2 + “ “);

System.out.print(num3 + “ “);

System.out.print(num4);

* System.out.printf("%d %d %d %d", num1, num2, num3, num4);

2.15

import java.util.Scanner;  
  
public class IntSquareSumDiff{  
 public static void main(String[] args){  
 Scanner scan = new Scanner(System.*in*);  
  
 System.*out*.println("Enter two integers: ");  
 int integer1 = scan.nextInt();  
 int integer2 = scan.nextInt();  
  
 int square1 = integer1 \* integer1;  
 int square2 = integer2 \* integer2;  
  
 int squareSum = square1 + square2;  
 int squareDiff = square1 - square2;  
  
 System.*out*.printf("The square of %d and %d is %d and %d respectively %n", integer1, integer2, square1, square2);  
 System.*out*.printf("The square sum of %d and %d is %d%n", integer1, integer2, squareSum);  
 System.*out*.printf("The square difference of %d and %d is %d", integer1, integer2, squareDiff);  
 }  
}

2.16

import java.util.Scanner;

public class CompareInt{

public static void main(String[] args){

Scanner intInput = new Scanner(System.in);

System.out.println("Enter an integer: ");

int firstNum = intInput.nextInt();

int firstNumSquare = firstNum \* firstNum;

if(firstNum > 100){

System.out.printf("%d > 100", firstNum);

}

if(firstNumSquare > 100){

System.out.printf("%nThe square of %d is %d, %d > 100", firstNum, firstNumSquare, firstNumSquare);

}

if(firstNum == 100){

System.out.printf("%n%d == 100", firstNum);

}

if(firstNumSquare == 100){

System.out.printf("%nThe square of %d is %d, %d == 100",firstNum, firstNumSquare, firstNumSquare);

}

if(firstNum != 100){

System.out.printf("%n%d != 100", firstNum);

}

if(firstNumSquare != 100){

System.out.printf("%nThe square of %d is %d, %d != 100",firstNum, firstNumSquare, firstNumSquare);

}

if(firstNum < 100){

System.out.printf("%n%d < 100", firstNum);

}

if(firstNumSquare < 100){

System.out.printf("%nThe square of %d is %d, %d < 100", firstNum, firstNumSquare, firstNumSquare);

}

}

}

2.17

import java.util.Scanner;

public class SmallLarge{

public static void main(String[] args){

Scanner nums = new Scanner(System.in);

System.out.println("Enter first integer: ");

int firstInt = nums.nextInt();

System.out.println("Enter second integer: ");

int secondInt = nums.nextInt();

System.out.println("Enter third integer: ");

int thirdInt = nums.nextInt();

int sum = firstInt + secondInt + thirdInt;

System.out.printf("The Sum of %d, %d and %d is %d", firstInt, secondInt, thirdInt, sum);

int product = firstInt \* secondInt \* thirdInt;

System.out.printf("%nThe product of %d, %d and %d is %d", firstInt, secondInt, thirdInt, product);

int average = sum / 3;

System.out.printf("%nThe average of %d, %d and %d is %d", firstInt, secondInt, thirdInt, average);

/\*int largest = Math.max(firstInt, secondInt, thirdInt);

System.out.printf("The largest integer = %d", largest);

int smallest = Math.min(firstInt, secondInt, thirdInt);

System.out.printf("The smallest integer = %d", smallest);\*/

}

}

2.18

import java.util.Scanner;

public class asterisks{

public static void main(String[] args){

System.out.println ("\*\*\*\*\*\*\*\*\* \*\*\* \* \*");

System.out.println ("\* \* \* \* \*\*\* \* \*");

System.out.println ("\* \* \* \* \*\*\*\*\* \* \*");

System.out.println ("\* \* \* \* \* \* \*");

System.out.println ("\* \* \* \* \* \* \*");

System.out.println ("\* \* \* \* \* \* \*");

System.out.println ("\* \* \* \* \* \* \*");

System.out.println ("\* \* \* \* \* \* \*");

System.out.println ("\*\*\*\*\*\*\*\*\* \*\*\* \* \*");

}

}

2.19

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2.20

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2.21

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2.22

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2.23

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2.24