**Exercise on Lesson 10**

1. What are two permissible data types to use for *x* in the following?

switch (x){ . . . }

2. What is the output of the following code?

int x = 3, p = 5, y = -8;

switch(x)

{

case 2:

case 3:

case 4:

case 5:

}

p++;

y+=(--p);

break;

y+=(p++);

System.out.println(y);

3. Write a *switch* structure that uses the character *myChar*. It should increment the integer variable *y* if *myChar* is either a capital or small letter G. It should decrement *y* if *myChar* is either a capital or a small letter M. If *myChar* is anything else, add 100 to *y*.

4. What is output by the following code?

int z = 2, q = 0;

switch(z)

{

case 1: case 2: case 3: case 4:

q++; q++; q++; q++;

default:

q++;

}

System.out.println(--q);

5. Write a line of code that declares the variable *chr* as a character type and assigns the letter *z* to it.

6. What is output by the following?

int x = 10, y = 12;

System.out.println( “The sum is ” + x + y ); System.out.println( “The sum is ” + (x + y) );

7. Convert the following code into a *switch* statement. if(speed = = 75)

{

System.out.println(“Exceeding speed limit”);

}

else if( (speed = = 69) || (speed = = 70) )

{

System.out.println(“Getting close”);

}

else if(speed = = 65)

{

}

else

{

System.out.println(“Cruising”);

System.out.println(“Very slow”);

}

8. Is *default* a mandatory part of a *switch* structure?

9. Write a line of code that converts *String s = “X”* into a character called *chr*.

**Answers:**

|  |  |
| --- | --- |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
| 8 |  |
| 9 |  |