|  |  |  |
| --- | --- | --- |
| 1. Write the following for-loops as while loops | | |
|  |  | |
| **int y = 5;**  **while(y < 10){**  **System.out.println(y);**  **y+=2;**  **}** | **int z = 10;**  **while(z > 0){**  **System.out.println(z);**  **z--;**  **}** | |
|  | | /4 |

|  |  |  |
| --- | --- | --- |
| 2. What is the output for each code segment below, | | |
| (a)  int m = 0;  int j = 0;  do{  j \*= -1;  if(j >= 0){  m += 2;  }  j+=2;  }while(m < 4);  System.out.println(j); | (b)  int i = 5, j = 0;  do{  for(j = 0; j < i; j++){  System.out.print(“\*”);  }  System.out.println();  i--;  }while(i > 0); | |
| **2** | **\*\*\*\*\***  **\*\*\*\***  **\*\*\***  **\*\***  **\*** | |
|  | | /4 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3. The Decrypt class below accepts a number from the user and then converts the number to its character representation. Each pair of numbers in the provided number represent the ascii equivalent of a character and therefore can be used to identify the corresponding symbol.  In the example below, each pair of numbers in num map to a different symbol as shown,   |  |  |  | | --- | --- | --- | | **num** | **pairs** | **ascii equivalents of pairs** | | 8773846772 | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 87 | 73 | 84 | 67 | 72 | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | W | I | T | C | H | |   Write the Decrypt class below. The final string of characters should be stored in String called result, | |
|  | |
|  | /5 |