Activity 2: Elements of Programming (Part 2)

1. Use and adapt the code PowersOfTwo.java, to print the first 50 powers of 2^N. Include your code as well as the output result.

```
public static void E1() {
             // read in one command-line argument
          long N = Long.parseLong("50");
          // repeat until i equals N
          while (i <= N) {</pre>
              System.out.println(i + " " + powerOfTwo); // print out the power
of two
             powerOfTwo = 2 * powerOfTwo;
                                                     // double to get the
next one
             i = i + 1;
          }
     }
2. 0 1
3. 1 2
4. 2 4
5. 3 8
6. 4 16
7. 5 32
8. 6 64
9. 7 128
10.8 256
11.9 512
12.10 1024
13.11 2048
14.12 4096
15.13 8192
16.14 16384
17.15 32768
18.16 65536
19.17 131072
20.18 262144
21.19 524288
22.20 1048576
23.21 2097152
24.22 4194304
25.23 8388608
26.24 16777216
```

- 27.25 33554432
- 28.26 67108864
- 29.27 134217728
- 30.28 268435456
- 31.29 536870912
- 32.30 1073741824
- 33.31 2147483648
- 34.32 4294967296
- 35.33 8589934592
- 36.34 17179869184
- 37.35 34359738368
- 38.36 68719476736
- 39.37 137438953472
- 40.38 274877906944
- 41.39 549755813888
- 42.40 1099511627776
- 43.41 2199023255552
- 44.42 4398046511104
- 45.43 8796093022208
- 46.44 17592186044416
- 47.45 35184372088832
- 48.46 70368744177664
- 49.47 140737488355328
- 50.48 281474976710656
- 51.49 562949953421312
- 52.50 1125899906842624