1. **Trace the following code. Write the outputs in the boxes below.**

| **1** | **fib\_list = [0, 1, 0 , 0 , 0, 0, 0, 0, 0, 0, 0, 0]** |
| --- | --- |
| **2** | **first = 0** |
| **3** | **second = 1** |
| **4** | **for index in range(10):** |
| **5** | **next = fib\_list[first] + fib\_list[second]** |
| **6** | **fib\_list[second + 1] = next** |
| **7** | **first = second** |
| **8** | **second = second +1** |
| **9** | **print(next)** |

**[10 marks]**

|  |
| --- |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

1. **Trace the following code. Write the outputs in the boxes below.**

| **1** | **D1 = {65536: 'u', 1: 'D', 63: 'n', 256: '', 16: 'o', 4: 'r',**  **1024: 'n', 16384: 'r', 4096: '', 64: 'p', 262144: 'n'}** |
| --- | --- |
| **2** | **i = 1** |
| **3** | **j = 2** |
| **4** | **while (i < 1000):** |
| **5** | **j = i\*i** |
| **6** | **char = D1[j]** |
| **7** | **print(char)** |
| **8** | **i = i+i** |

**[10 marks]**

|  |
| --- |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |