**An Introduction to the Binary to Text System**

**Task 1: Convert each ‘Binary’ number into text**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

65, A

Convert 01000001 and write the letter here

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

71, G

Convert 01000111 and write the letter here

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

108, l

Convert 01101100 and write the letter here

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

90, Z

Convert 01011010 and write the letter here

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

111, o

Convert 01101111 and write the letter here

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

74, J

Convert 01001010 and write the letter here

**Task 2: Convert each letter into Binary**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

010000011

Convert C and write the Binary number here

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

01100110

Convert f and write the Binary number here

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

01001000

Convert H and write the Binary number here

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

Convert P and write the Binary number here

01010000

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

01101101

Convert m and write the Binary number here

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

01110100

Convert t and write the Binary number here

**Task 3: Convert the names of everyone in your home to binary**

|  |  |
| --- | --- |
| **Name** | **Binary Coversion** |
| **Sophie** | 01010011 01101111 01110000 01101000 01101001 01100101 |
| **Kelly** | 01001011 01100101 01101100 01101100 01111001 |
| **Tiny** | 01010100 01101001 01101110 01111001 |
| **Pippa** | 01010000 01101001 01110000 01110000 01100001 |

**Task 4:** **Try to convert this binary to text**

*Note: Remember the binary number ‘00100000’ is a space not a letter. They have been highlighted to save time*

01000100 01101001 01100100 00100000 01111001 01101111 01110101 00100000 01101000 01100101 01100001 01110010 00100000 01100001 01100010 01101111 01110101 01110100 00100000 01110100 01101000 01100101 00100000 01101101 01101111 01101110 01101011 01100101 01111001 01110011 00100000 01110111 01101000 01101111 00100000 01110011 01101000 01100001 01110010 01100101 01100100 00100000 01100001 01101110 00100000 01000001 01101101 01100001 01111010 01101111 01101110 00100000 01100001 01100011 01100011 01101111 01110101 01101110 01110100 00100000 01010100 01101000 01100101 01111001 00100000 01110111 01100101 01110010 01100101 00100000 01010000 01110010 01101001 01101101 01100101 00100000 01101101 01100001 01110100 01100101 01110011

Did you hear about the monkeys who shared an Amazon account They were Prime mates