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| **PART 1** |
| 1. **(1)-(a)** |
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| 1. **(1)-(b)** |
| (b) - calculate the LPC2104 frequency  equation: frequency = (result baud) x 16 x divisor  calculation: frequency = 801 x 16 x 0xEA = 801 x 16 x 234 =2998994 = 0x2DC2D |
| 1. **(1)-(c)** |
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| 1. **(2)-(a)** |
| Using F5 |
| Using F10 |
| Using F11 |
| 1. **(2)-(b)** |
|  |
| 1. **(2)-(c)** |
|  |
| 1. **(3)-(a)** |
|  |
| 1. **(3)-(b)** |
|  |
| 1. **(3)-(c)** |
| Using F10, the process froze when stepping into the subroutine “Receive”. |
| Using F10, after sending a character into UART#1, it step to the next line. And the character is received and stored successfully. |
| Using F11, the process steps into the subroutine, and will spin until there’s a data present (RDR=1) |
| Using F11, after entering a character in UART#1, the program receives the character and steps out of the subroutine, which is stored to the designated address successfully. |
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| **PART 2** |
| 1. **(1)-(a)** |
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