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|  | Task Number | Description | State |
| 01-Introduction | Task\_01 | Create a table for Asci code | Done |
| Task\_02 | maximum number between three values | Done |
| Task\_03 | RIGHT angle triangle | Done |
| Task\_04 | decide the letter is vowel or not | Done |
| Task\_05 | multiplication table | Done |
| Task\_06 | summation the digits of integer entered by user | Done |
| Task\_07 | change from decimal to binary and vice versa | Done |
| 02-Derived | Task\_08 | create a function to find the maximum number of array | Done |
| Task\_09 | create a function to search to the number in the array which number is taken from user | Done |
| Task\_10 | delete number in array | Done |
| Task\_11 | merge two arrays together | Done |
| Task\_12 | find the even and odd numbers in the array | Done |
| 03-OOP Part Two | Task\_13 | Check if the character is digit? |  |
| Task\_14 | Check if all the array is even? |  |
| Task\_15 | Check if there is any value of array is even? |  |
| Task\_16 | write string class which has  Members { length - string} |  |
| Task\_17 | handle interrupt signal like (ctrl+c) |  |
| Task\_18 | fill array from 10 to 10000 sequentially |  |
| Task\_19 | try and / or |  |
| Task\_20 | calculate accumulate of array |  |
| Task\_21 | Create A class that can be used to make back trace  for calling functions |  |
| 03-OOP  Part Two | Task\_22 | Create Class behave like string totally |  |
| Task\_23 | Create Class to handle Logs with different Levels and store Msgs as well for dump and clear the buffer |  |
| Task\_24 | git Manager |  |

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|  | Task Number | Description | State |
| 06-polymorphism\_STL | Task\_25 | Test all functions of STL  https://cplusplus.com/reference/  https://hackingcpp.com/cpp/ |  |
| Task\_26 | Interface and Multiple Inheritance:  -Create an interface class Drawable with a pure virtual function draw().  -Derive classes like Circle, Rectangle, and Triangle from Shape and implement the Drawable Interface.  -Create objects of these derived classes and call the draw() function through a pointer to the Drawable interface |  |
| Task\_27 | Uart Debugger  https://github.com/Moatasem-Elsayed/Uart\_debuger |  |