Day3 20220126 Assignment

1. Write the differences between while and do while loop.

Both while and do while loop are belong to conditional iteration statements. As both looping perform iteration based on condition not specific number iteration. Key difference is condition checking for loop/iteration, i.e, while statement check condition before and do while after. Because this key difference, in do while loop, at least iteration statement will executed once, whereas in while loop, if condition fail at beginning of loop, iteration statement will not execute at all.

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| Particulars | do while | while |
| Syntax | do  {  Loop\_statements  } while(loop\_condition) | While(loop\_condition)  {  Loop\_statements  } |
| Condition checking | **After execution** of loop\_statements | **Before execution** of loop\_statements |
| Minimum no of time execution of loop\_statements | Minimum one time will be executed. | Loop\_statement may not execute once. |
| Applications suitability | Optimization methods i.e., LPP, Transportation, Assignment problem are best suited, as loop as to be executed at least once. | Searching, sorting are best suited, some time target required and data given are same. Hence, no need to sort/search. |