Task(9.3)

Lambda expression

Steps:

1. Define and Initialize Variables:
   - Define three integer variables: x, y, and z with initial values of 3, 9, and 10, respectively.
2. Lambda Function - Capture by Reference:
   - Create a lambda function print that captures all variables by reference using [&]. This lambda:
     - Multiplies x, y, and z by 2.
     - Prints the updated values of x, y, and z.
3. Lambda Function - Capture by Value:
   - Create another lambda function print_value that captures all variables by value using [=]. This lambda:
     - Prints the values of x, y, and z, but since the variables are captured by value, it does not modify them.
     - The values printed are the ones after the changes made by the previous lambda (since it's captured after that lambda call).
4. Lambda Function - Capture Specific Variables by Reference:
   - Define a lambda function print_only_two that captures only x and y by reference, taking one parameter factor.
   - The lambda:
     - Increments x and y by the factor.
     - Prints the updated values of x and y, but does not modify z as it's not captured.
5. Main Function Execution:
   - Call the print lambda to modify and print the values of x, y, and z.
   - Call the print_value lambda to print the values of x, y, and z after the changes.
   - Call the print_only_two lambda with a factor (e.g., 10) to update and print only x and y.

Thank You