```
# Nick Conant-Hiley
# Merrimack College
# Module 2 project
# ------Tribonacci function-----
# Tribo functions params: n is position of
def tribo(n):
   a, b, c = 1, 1, 1
   # Base case
   if n == 0:
      return 0
   # 2nd base case
   elif n == 1 or n == 2:
      return 1
   # for loop to calculate the correct position in the tribonaci sequence
   for i in range(3, n + 1):
      a, b, c = b, c, a + b + c
   return c
# ------
Main-----
def main():
   while True:
      try:
         # user input-----
         inp = int((input("enter a number for positon for tribonacci (enter to
00 to terminate): ").strip()))
         # terminate program code-----
         if inp < 0:
             print("program terminated")
         # Calculates correct position in array
         inp2 = inp - 1
         print(f"the {inp} position of tribonacci sequence is {tribo(inp2)}")
      except ValueError:
         print("Please enter an integer greater than 0")
______
if __name__ == "__main__":
   main()
# fib 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144
# trib 0, 0, 1, 1, 2, 4, 7, 13, 24
```