28/12/2020.

8. Write logic for Ternary Search?
=> Jernary Search.
mid1 = 1 + (v-1)/3
mid2 = 8 - (8-1)/3
Search 1 2 3 4 5 6 7 8 9 10
6:
1 2 3 4 5 6 7 8 9 Key > ax [mid1] 1 2 3 4 5 6 7 8 9 10 Key < ax [mid2] 1=0 Key < ax [mid2]
1 2 3 4 5 6 7 8 9 Key zar [mid] 1 2 3 4 5 6 7 8 9 10 Key zar [mid] 1 2 3 4 5 6 7 8 9 10 Key zar [mid]
mid1
Key 12345678910 Key=ax[mid1]
825
Jime (nonlexity: Ologan)

```
Program
# include (stolio.h)
int terminary Search (int L, intr, int key, ar[])
   ib (x>=1)
         int mid1 = 1+(x-1)/3;
        int mid = 2 - (8-1) /3;
         if ( ar [mid 1] = = key) {
               return mid L;
        it (ar[midz]== key) {
              return mid 2;
       if (key ( ar [mid1]) {

return ternary segrch(1, mid1-1, key, ar);
        else if (key > ar[mid 2]) of
             return ternary search (mid 2 +1, 8,
        else {
             return ternary Search
 refurn -1;
```