HASH AGILE

PROBLEM STATEMENT : Rotate a String Left by K Positions

Write a program to rotate a given string s left by k positions without using any built-in string functions.

PROGRAM:

```
const promptSync = require('prompt-sync')();

const rotate = (s: string, k: number): void =>

{

   const len: number = s.length;

   k = k % len;

   const arr: string[] = s.split('');

   while (k > 0) {

      const f: string | undefined = arr.shift();

      if (f !== undefined) {

         arr.push(f);

      }

      k--;

   }

   console.log(arr.join(''));

};

const s: string | null = promptSync("Enter the string: ");

if (s !== null)

{

   const k: number = parseInt(promptSync("Enter the number of positions to rotate: ") || "0",
10);

   rotate(s, k);

}
```

SAMPLE TESTCASE:

TESTCASE 1:

INPUT:

abcdef

2

OUTPUT:

cdefab

TESTCASE 2:

INPUT:

hashagile

4

OUTPUT:

agilehash

TEST CASE 3:

INPUT:

internship

5

OUTPUT:

nshipinter

```typescript
            }
            k--;
        }
    }

    console.log(arr.join(''));
};

const s: string | null = promptSync("Enter the string: ");
if (s !== null) {
    const k: number = parseInt(promptSync("Enter the number of positions to rotate: ") || "0", 10);
    rotate(s, k);
}
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   SERIAL MONITOR   COMMENTS

```
PS C:\Users\Shyaam\Desktop\inno> tsc ROTATE.ts
PS C:\Users\Shyaam\Desktop\inno> node ROTATE.js
Enter the string: abcdef
Enter the number of positions to rotate: 2
cdefab
PS C:\Users\Shyaam\Desktop\inno> node ROTATE.js
Enter the string: hashagile
Enter the number of positions to rotate: 4
agilehash
PS C:\Users\Shyaam\Desktop\inno> node ROTATE.js
Enter the string: internship
Enter the number of positions to rotate: 5
nshipinter
PS C:\Users\Shyaam\Desktop\inno>
```