HATFD1010

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. For example, rotating "abcdef" by 2 would give "cdefab".

Instructions: Do not use built-in rotation or substring functions. Implement the logic manually.

Program: java

```
import java.util.*;
public class ques {
  public static void main(String[] args) {
     Scanner sc=new Scanner(System.in);
     String s=sc.nextLine();
     String l=s;
     int k=sc.nextInt();
     int n=s.length();
     char[] arr=new char[n];
     int p=0;
     for(int i=k;i<n;i++){
       arr[p]=l.charAt(i);
      p++;
   for(int i=0;i< k;i++){
    arr[p]=s.charAt(i);
    p++;
   for(int i=0;i< n;i++){}
     System.out.print(arr[i]);
    }
  }
}
```

Output:

```
Sample testcase 1:
Input: abcdef
K=3
Output:defabc

Sample testcase 2:
Input: friendship
k=5
Output: dshipfrien

Sample testcase 3:
Input: placement
K=1
```

Output: lacementp

Screenshot:

```
import java.util.*;
public class ques {
    Run main | Debug main | Run | Debug
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        String s=sc.nextLine();
        String l=s;
        int k=sc.nextInt();
        int n=s.length();
        char[] arr=new char[n];
        int p=0;
        for(int i=k;i<n;i++){</pre>
           arr[p]=l.charAt(i);
      for(int i=0;i<k;i++){
       arr[p]=s.charAt(i);
       p++;
      for(int i=0;i<n;i++){
        System.out.print(arr[i]);
```

```
ing\Code\User\workspaceStorage\11121411aefcecae620de8a26f131f20\redhat.java\jdt_ws\java_f04a4d41\bin' 'ques'
abcdef
efabcd
PS C:\Users\work\java> ^C
PS C:\Users\work\java>
PS C:\Users\work\java> c:; cd 'c:\Users\work\java'; & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCode
ing\Code\User\workspaceStorage\11121411aefcecae620de8a26f131f20\redhat.java\jdt_ws\java_f04a4d41\bin' 'ques'
abcdef
defabc
PS C:\Users\work\java> c:; cd 'c:\Users\work\java'; & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCode
ing\Code\User\workspaceStorage\11121411aefcecae620de8a26f131f20\redhat.java\jdt_ws\java_f04a4d41\bin' 'ques'
friendship
dshipfrien
PS C:\Users\work\java> c:; cd 'c:\Users\work\java'; & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCode
ing \verb|\code| User| workspaceStorage| 11121411 a efcecae 620 de 8a 26f131f20 \verb|\redhat.java| jdt_ws \verb|\java_f04a4d41| bin'' ques'| less than the second of 
placement
lacementp
PS C:\Users\work\java>
```