→ Task2: Strings

Q1) https://www.hackerrank.com/challenges/swap-case?isFullScreen=true

```
def swap_case(s):
    return s.swapcase()

s = input("Enter a string: ")
result = swap_case(s)
print(result)
    Enter a string: AppLE
    aPPle
```

Q2) https://www.hackerrank.com/challenges/python-string-split-and-join?isFullScreen=true

```
def split_and_join(line):
    str_arr = line.split(" ")
    return "-".join(str_arr)

line = input("Enter a string: ")
result = split_and_join(line)
print(result)

Enter a string: Knowledge is power
Knowledge-is-power
```

Q3) https://www.hackerrank.com/challenges/whats-your-name?isFullScreen=true

```
def print_full_name(first_name, last_name):
    print("Hello " + first_name + " " + last_name + "! You just delved into python.")

first_name = input("firstname: ")
    last_name = input("lastname: ")
    print_full_name(first_name, last_name)

    firstname: Jawaharlal
    lastname: Nehru
    Hello Jawaharlal Nehru! You just delved into python.
```

Q4) https://www.hackerrank.com/challenges/python-mutations?isFullScreen=true

```
def mutate_string(string, position, character):
    str_list = list(string)
    str_list[position] = character
    return ''.join(str_list)

s = input("String: ")
i, c = input().split()
s_new = mutate_string(s, int(i), c)
print(s_new)

    String: Knowledge
2 5
    Kn5wledge
```

Q5) https://www.hackerrank.com/challenges/find-a-string?isFullScreen=true

```
return count

string = input().strip()
sub_string = input().strip()
```

Q6) https://www.hackerrank.com/challenges/string-validators?isFullScreen=true

```
s = input("String :")
print(any(n.isalnum() for n in s))
print(any(n.isalpha() for n in s))
print(any(n.isdigit() for n in s))
print(any(n.islower() for n in s))
print(any(n.isupper() for n in s))

String :Power
    True
    True
    False
    True
    True
    True
    True
    True
    True
```

Q7) https://www.hackerrank.com/challenges/text-alignment?isFullScreen=true

```
thickness = int(input())
c = 'H'
# Top Cone
for i in range(thickness):
    print((c*i).rjust(thickness-1)+c+(c*i).ljust(thickness-1))
# Top Pillars
for i in range(thickness+1):
    print((c*thickness).center(thickness*2)+(c*thickness).center(thickness*6))
# Middle Belt
for i in range((thickness+1)//2):
    print((c*thickness*5).center(thickness*6))
# Bottom Pillars
for i in range(thickness+1):
    print((c*thickness).center(thickness*2)+(c*thickness).center(thickness*6))
# Bottom Cone
for i in range(thickness):
    print(((c*(thickness-i-1)).rjust(thickness)+c+(c*(thickness-i-1)).ljust(thickness)).rjust(thickness*6))
```

Q8) https://www.hackerrank.com/challenges/text-wrap?isFullScreen=true

```
import textwrap

def wrap(string, max_width):
    return textwrap.fill(string, max_width)

string, max_width = input(), int(input())
result = wrap(string, max_width)
print(result)
```

Q9) https://www.hackerrank.com/challenges/designer-door-mat?isFullScreen=true

```
symbol = '.|.'
n, m = input().split()
n = int(n)
m = int(m)
center = int(n/2)+1
length = 1
for i in range(1, n+1):
    if i < center:</pre>
        print((symbol*length).center(m, '-'))
        length += 2
    elif i > center:
        print((symbol*length).center(m, '-'))
        length -= 2
    else:
        print("WELCOME".center(m, '-'))
        length -= 2
```

Q10) https://www.hackerrank.com/challenges/python-string-formatting?isFullScreen=true

Q11) https://www.hackerrank.com/challenges/alphabet-rangoli?isFullScreen=true

```
import string
def print_rangoli(size):
    alpha = string.ascii_lowercase
    l = []
    for i in range(0, size):
        s = "-".join( alpha[i:size] )
        l.append( (s[::-1] + s[1:]).center(4*n-3, '-') )
    print( '\n'.join(l[::-1] + l[1:]) )

    n = int(input())
    print_rangoli(n)
```

Q12) https://www.hackerrank.com/challenges/capitalize?isFullScreen=true

```
#!/bin/python3
import math
import os
import random
import re
import sys
def solve(s):
    for x in s[:].split():
       s = s.replace(x, x.capitalize())
    return s
if __name__ == '__main__':
   fptr = open(os.environ['OUTPUT_PATH'], 'w')
    s = input()
    result = solve(s)
    fptr.write(result + '\n')
    fptr.close()
```

Q13) https://www.hackerrank.com/challenges/the-minion-game?isFullScreen=true

```
def minion_game(string):
    vowels = 'AEIOU';
    keyscore = 0
    stuscore = 0
    for i in range( 0, len(string) ):
        if string[i] in vowels:
            keyscore += len(string) - i
```

```
else:
    stuscore += len(string) - i

if keyscore > stuscore:
    print('Kevin {}'.format(keyscore))
elif stuscore > keyscore:
    print( 'Stuart {}'.format(stuscore) )
else:
    print('Draw')

s.=.input()
minion_game(s)
```

Q14) https://www.hackerrank.com/challenges/merge-the-tools?isFullScreen=true

```
def merge_the_tools(string, k):
    for i in range(0, len(string), k):
        unique = []
        str_list = list(string[i:i+k])
        for c in str_list:
            if c not in unique:
                 unique.append(c)
        print("".join(unique))

string, k = input(), int(input())
merge_the_tools(string, k)
```

Os completed at 12:21

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