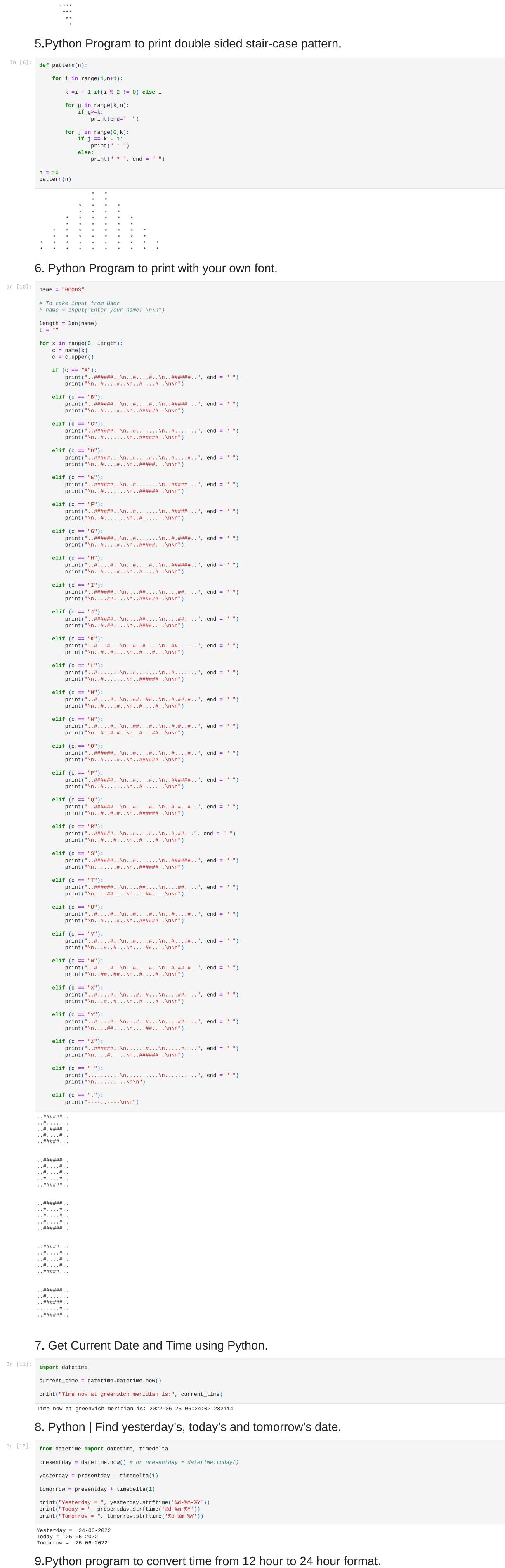
1. Python Program for Cycle Sort. In [2]: def cycle_Sort(array): write = 0for cycle in range(0, len(array) - 1): ele = array[cycle] position = cycle for i in range(cycle + 1, len(array)): if array[i] < ele:</pre> position += 1 if position == cycle: continue while ele == array[position]: position += 1 array[position], ele = ele, array[position] write += 1 while position != cycle: position = cycle for a in range(cycle + 1, len(array)): if array[a] < ele:</pre> position += 1 while ele == array[position]: position += 1 array[position], ele = ele, array[position] write += 1 return write array = [2, 4, 5, 1, 3]print("The original array is:", array) n = len(array)cycle_Sort(array) print("The sorted array is: ",array) The original array is: [2, 4, 5, 1, 3] The sorted array is: [1, 2, 3, 4, 5] 2. Python Program for Stooge Sort. In [3]: def stoogesort(arr, 1, h): **if** 1 >= h: return if arr[1]>arr[h]: t = arr[1]arr[1] = arr[h]arr[h] = t**if** h-l+1 > 2: t = (int)((h-l+1)/3)stoogesort(arr, 1, (h-t)) stoogesort(arr, 1+t, (h)) stoogesort(arr, 1, (h-t)) arr = [2, 4, 5, 3, 1]n = len(arr)stoogesort(arr, 0, n-1) for i in range(0, n): print(arr[i], end = ' ') 1 2 3 4 5 3. Python Program to print the pattern 'G'. In [6]: result_str=""; for row in range(0,7): for column in range(0,7): if ((column == 1 and row != 0 and row != 6) or ((row == 0 or row == 6) and \setminus column > 1 and column < 5) or (row == 3 and column > 2 and column < 6) or \ (column == 5 and row != 0 and row != 2 and row != 6)): result_str=result_str+"*" result_str=result_str+" " result_str=result_str+"\n" print(result_str); 4. Python Program to print an Inverted Star Pattern. In [7]: n=11 **for** i **in** range (n, 0, -1): print((n-i) * ' ' + i * '*') ***** ***** 5. Python Program to print double sided stair-case pattern. In [8]: def pattern(n): for i in range(1,n+1): k = i + 1 if(i % 2 != 0) else ifor g in range(k,n): **if** g>=k: print(end=" ") for j in range(0, k): **if** j **==** k - 1: print(" * ") print(" * ", end = " ") n = 10pattern(n) 6. Python Program to print with your own font. In [10]: name = "GOODS" # To take input from User # name = input("Enter your name: \n\n") length = len(name)for x in range(0, length): c = name[x]c = c.upper() **if** (c == "A"): print("..#####..\n..#...\n..######..", end = " ") print("\n..#...#..\n..#...\n\n") elif (c == "B"): print("..######..\n..#...\n..#####...", end = " ") print("\n..#...\n..######..\n\n") elif (c == "C"): print("..######..\n..#......\n..#....", end = " ") print("\n..#....\n..#####..\n\n") elif (c == "D"): print("..#####...\n..#....#...\n..#...", end = " ") print("\n..#...\n..#####...\n\n")



In [13]:

def convert24(str1):

else:

20:05:45

if str1[-2:] == "AM" and str1[:2] == "12":

elif str1[-2:] == "PM" and str1[:2] == "12":

return str(int(str1[:2]) + 12) + str1[2:8]

return "00" + str1[2:-2]

elif str1[-2:] == "AM":
return str1[:-2]

return str1[:-2]

print(convert24("08:05:45 PM"))