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ROLL NO:21023 (CSE-A)

TASK: COGNIZANCE (TASK -4)

1)Write a program to perform addition on two user input numbers.

```
# addition on two user input numbers

a = int(input('First number : '))

b = int(input('Second number : '))

sum = a + b

print('sum = '_sum)
```

C:\Users\jammi\PycharmProjects\pythonProject4\venv\Scripts\python.exe C:/Users/jammi/PycharmProjects/pythonProject4/main.py First number : 2 Second number : 3 sum = 5

C:\Users\jammi\PycharmProjects\pythonProject4\venv\Scripts\python.exe C:/Users/jammi/PycharmProjects/pythonProject4/main.py
First number : 4
Second number : 5
sum = 9

C:\Users\jammi\PycharmProjects\pythonProject4\venv\Scripts\python.exe C:/Users/jammi/PycharmProjects/pythonProject4/main.py
First number : 10
Second number : 4
sum = 14

2) Write a program to accept a string from the user and display characters, that are present at an even index number.

```
#displaying characters that are present at an even index number.

string = input('Enter the string :')

print('Even characters:'_string[0::2])

C:\Users\jammi\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/jammi/PycharmProjects/pythonProject/main.p
Enter the string :moksho tej
Even characters: mkh e
```

```
t:\users\jammi\rycnarmrojects\pytnonroject\venv\scripts\pytnon.exe t:\users/jammi\rycnarmrojects/pytnonroject/main.py
Enter the string : eswar
Even characters: sa
```

```
C:\Users\jammi\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/jammi/PycharmProjects/pythonProject/main.py
Enter the string :chintu
Even characters: cit
```

3) Write a python program to make a 2-dimensional list that contains represents a table of records, for instance, student details like Roll no, Student Name, Marks; And complete the following 3 sub-tasks.

Method - 1

```
#creating table
n=int(input('Enter The Number of Students : '))
a=[['Roll No'_'Name'_'Marks']]

for i in range(n):
    roll=input('Enter Roll No : ')
    studentname=input('Enter Student Name : ')
    marks=int(input('Enter Marks : '))
a.append([roll_studentname_marks])

for i in range(len(a)):
    k=a[i][j]
    print(k_end='\t')
    print('\n')
h=int(input('Enter The Row to be Printed : '))
for i in a[h]:
    print(i_end='\t')
```

i)Add some records in the list and print the list in tabular form,

```
"C:\Users\jammi\PycharmProjects\QUESTION 3\venv\Scripts\python.exe" "C:\Users/jammi\PycharmProjects\QUESTION 3\main.py"
Enter The Number of Students : 3
Enter Roll No : 1
Enter Student Name : Abc
Enter Marks : 70
Enter Roll No : 2
Enter Student Name : Def
Enter Student Name : Def
Enter Marks : 95
Enter Roll No : 3
Enter Student Name : 8h1
Enter Marks : 85
```

```
C:\Users\jammi\PycharmProjects\pythonProject7\venv\Scripts\python.exe C:/Users/jammi/PycharmProjects/pythonProject7/main.py
Roll No Name Marks
1 Abc 90
2 Def 95
3 Ghi 85
```

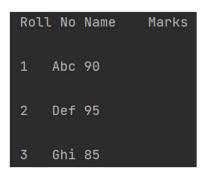
ii) From the created list, extract and print the second record/row that contains.

```
Enter The Row to be Printed : 2

2 Def 95
```

Method - 2

```
1     a = 'Roll No Name Marks'
2     b = '1     Abc     90'
3     c = '2     Def     95'
4     d = '3     Ghi     85'
5     print(a)
6     print(b)
7     print(c)
8     print(d)
```



```
second row is 2 Def 95
```

4) Write a program to check if the given number is a palindrome number.

```
#checking the given number is a palindrome number or not
n=int(input("Enter number:"))
temp=n
rev=0
num=n%10
num=n%10
rev=rev*10+num
n=n//10
fitemp==rev):
print('True')
else:
print('False')
```

```
C:\Users\jammi\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/jammi/PycharmProjects/pythonProject1/main.py
Enter number:5%5
True
```

C:\Users\jammi\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/jammi/PycharmProjects/pythonProject1/main.py
Enter number: 483
False

5) Print the following pattern.

```
#printing pattern
print('Enter the rows :')
rows = int(input())

spaces = rows
num = 1

for i in range(1, rows + 1, 1):
    for j in range(1, spaces + 1, 1):
        print(' ', end='', flush=True)
        spaces = spaces - 1

for q in range(1, i + 1, 1):
        print('*', end='', flush=True)
        num = num + 1
        print(' ', end='', flush=True)
print(' ', end='', flush=True)
print(' ', end='', flush=True)
```

