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Section: CSE-A

Q1) Write a program to perform addition on two user input numbers.

```
a = int(input("ENTER THE VALUE FOR a: "))
b = int(input("ENTER THE VALUE FOR b: "))
sum = a+b
print("Sum:",sum)
```

Output:

```
ENTER THE VALUE FOR a: 12
ENTER THE VALUE FOR b: 8
Sum: 20

Process finished with exit code 0
|
```

Q2) Write a program to accept a string from the user and display characters, that are present at an even index number.

```
string = input("ENTER THE STRING: ")
print("Characters at Even index number:",string[::2])
```

Output:

```
ENTER THE STRING: Amrita university chennai
Characters at Even index number: Art nvriyceni

Process finished with exit code 0
|
```

Q3) 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.

- i) Add some records in the list and print the list in tabular form.
- ii) From created list, extract and print second record/row that contains

```

#student details
n=int(input("Enter The Number of Students : "))
l=[["Roll No","Name","Marks"]]
for i in range(n):
    roll=input("Enter The Roll No : ")
    sname=input("Enter The Student Name : ")
    marks=int(input("Enter The Marks : "))
    l.append([roll,sname,marks])
for i in range(len(l)):
    for j in range(len(l[i])):
        k=l[i][j]
        print(k,end='\t')
    print('\n')
h=int(input("Enter The Row to be Printed : "))
for i in l[h]:
    print(i,end='\t')

```

Output:

```

Enter The Number of Students : 3
Enter The Roll No : 1
Enter The Student Name : Jkl
Enter The Marks : 85
Enter The Roll No : 2
Enter The Student Name : Mno
Enter The Marks : 70
Enter The Roll No : 3
Enter The Student Name : Pqr
Enter The Marks : 98
Roll No Name    Marks

1   Jkl 85

2   Mno 70

3   Pqr 98

Enter The Row to be Printed : 3
3   Pqr 98

```

Q4) Write a program to check if the given number is a palindrome number.

```
n=int(input("Enter number:"))
temp=n
rev=0
while(n>0):
    dig=n%10
    rev=rev*10+dig
    n=n//10
if(temp==rev):
    print("True! It is a Palindrome.")
else:
    print("False! It is not a Palindrome.")
```

Output:

```
Enter number:1221
True! It is a Palindrome.

Process finished with exit code 0
```

```
Enter number:1234
False! It is not a Palindrome.

Process finished with exit code 0
|
```

Q5) Printing the pattern.

```
n = int(input("Enter the number of rows: "))
m = (2 * n) - 2
for i in range(0, n):
    for j in range(0, m):
        print(end=" ")
    m = m - 1
    for j in range(0, i + 1):
        print("*", end=' ')
    print(" ")
```

Output:

Enter the number of rows: 5

```
  *  
 * *  
* * *  
* * * *  
* * * * *
```