Cognizance-Task_4

Question 1.

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

Sample Input

First Number: 2

Second Number: 3

Sample Output

Sum = 5
```
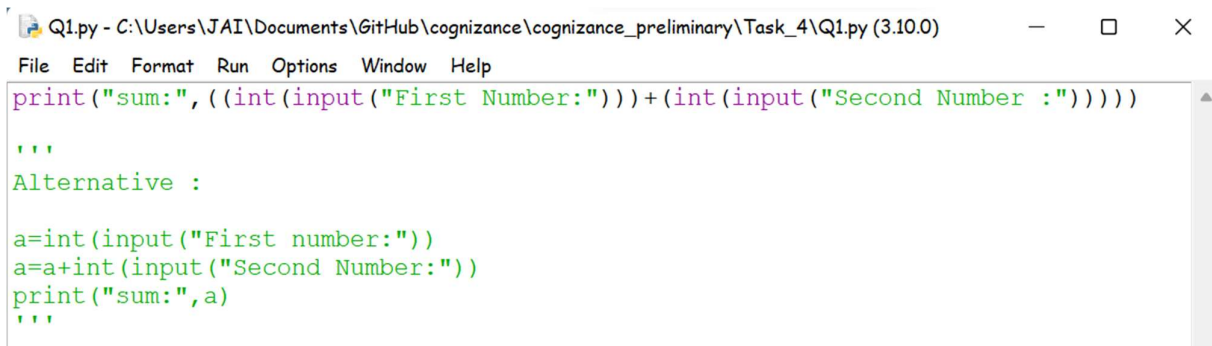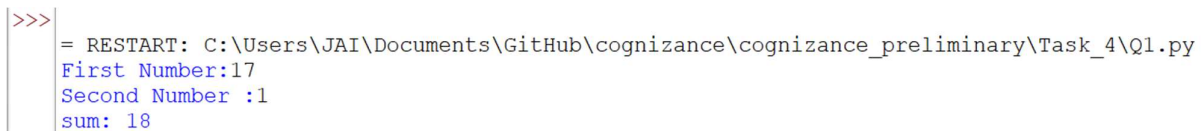
Python-code:

Q1.py - C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q1.py (3.10.0)   —   □   ✕

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```python
print("sum:",((int(input("First Number:")))+(int(input("Second Number :")))))

'''
Alternative :

a=int(input("First number:"))
a=a+int(input("Second Number:"))
print("sum:",a)
'''
```

Output:

```
>>>
    = RESTART: C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q1.py
    First Number:17
    Second Number :1
    sum: 18
```

Question 2.

```
Write a program to accept a string from the user and display char-
acters, that are present at an even index number.

Sample Input

Enter the string: Lorem Ipsum

Sample Output

LrmIsm
```

Python-code:

```python
s=input("Enter the string:")
p=0
for i in s:
    if(p%2==0):
        print(i,end="")
    p=p+1
```

Output:

```
>>>
    === RESTART: C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q2.py ===
    Enter the string:Even index only
    Ee ne ny
>>>
    === RESTART: C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q2.py ===
    Enter the string:Odd isnt
    Odin
>>>
```

Question 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 2 sub-tasks.

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

For e.g.

Roll No	Name	Marks
1	Abc	90
2	Def	95
3	Ghi	85

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

For e.g.

2   Def   95.

Python-code:

```python
rec=[]

#Appending values into the list
rec.append([101,'Ramesh',99])
rec.append([102,'Suresh',89])
rec.append([103,'Mukesh',79])
rec.append([104,'Rajesh',69])

#Printing the Records Available in the list
print("Records in the list:")

for i in range(len(rec)):
    for j in range(len(rec[i])):
        print(rec[i][j],end="\t")
    print()

print("\nSecond record in the list:")
#Printing the Second Record from the list
#Alternative: 'print(rec[1])'

for j in range(len(rec[1])):
    print(rec[1][j],end="\t")
```

Output:

```
>>>
=== RESTART: C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q3.py ===
Records in the list:
101     Ramesh   99
102     Suresh   89
103     Mukesh   79
104     Rajesh   69

Second record in the list:
102     Suresh   89
```

Question 4:

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

Sample Input

Number: 545

Sample output

True

Python-code:

Q4.py - C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q4.py (3.10.0)

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```python
n=int(input("Number:"))
c=n
reversed=0
while c>0:
    temp=int(c%10)
    reversed=reversed*10+temp
    c=int(c/10)
if reversed==n:
    print("true")
else:
    print("false")
```

Output:

```
>>>
    === RESTART: C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q4.py ===
    Number:545
    true
>>>
    === RESTART: C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q4.py ===
    Number:13321
    false
>>>
    === RESTART: C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q4.py ===
    Number:123321
    true
```

Question 5.

```
Print the following pattern

    *

   *  *

  *  *  *

 *  *  *  *

*  *  *  *  *
```

Python-code:

Q5.py - C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q5.py (3.10.0) — □ ✕

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```python
s=4
for i in range(5):
    for k in range(s):
        print("",end=" ")
    for j in range(i+1):
        print("* ",end="")
    s=s-1
    print()
```

Output:

```
>>>
=== RESTART: C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q5.py ===
     *
    * *
   * * *
  * * * *
 * * * * *
```