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:

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 characters, that are present at an even index number.

Sample Input

Enter the string: Lorem Ipsum

Sample Output

LrmIsm
```

Python-code:

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
                    90
         Abc
2
                    95
         Def
         Ghi
                    85
ii) From created list, extract and print second record/row that
contains
For e.g.
                    95.
         Def
```

Python-code:

1. Pre-defined records

```
🗟 Q3.py - C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q3.py (3.10.0)
                                                                                 X
File Edit Format Run Options Window Help
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")
```

2. User-defined Records

Output:

1.

```
>>> === 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
```

2.

```
= RESTART: C:\Users\JAI\Documents\GitHub\coqnizance\coqnizance preliminary\Task
4\Q3.py
Enter the records seperated by spaces:
1 aqss 43
Do you want to add one more record? (y/n) y
2 ygfd 76
Do you want to add one more record? (y/n)t
Invalid option
Do you want to add one more record? (y/n) Y
3 nhgfdf 54
Do you want to add one more record? (y/n) N
Records in the list:
        agss
                43
2
                76
        ygfd
3
        nhgfdf 54
Second record in the list:
2
        ygfd
                76
```

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) — X

File Edit Format Run Options Window Help

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.

Python-code:

```
G5.py - C:\Users\JAI\Documents\GitHub\cognizance\cognizance_preliminary\Task_4\Q5.py(3.10.0) — X

File Edit Format Run Options Window Help

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: