LUMINAR TECHNOLAB PYTHON FULLSTACK

TASK-2

Q1: Python program to print all the even number within a given range PROGRAM

```
# Q1: Python program to print all the even number within a given range
#1 to 50 even numbers

i=1

for i in range(1,51):

if i%2==0:

print(i)

i+=1
```

OUTPUT

```
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
```

Q2: Python program to calculate the sum of the odd numbers within the given range

```
PROGRAM
```

```
# Q2: Python program to calculate the sum of the odd numbers within the given range
i=10
sum=0
while(i<=50):
if(i%2!=0):
sum=sum+i
i=i+1
print("sum of all even numbers from 10 to 50 =",sum)</pre>
```

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OUTPUT

```
sum of all even numbers from 10 to 50 = 600
PS C:\Users\HP\Desktop\PYTHON FULLSTACK>
```

Q3: Python program to check if the given string is a palindrome or not ->Palindrome-a word that reads the same backward as forward Madam=madaM

PROGRAM

```
# Q3: Python program to check if the given string is a palindrome or not
# ->Palindrome-a word that reads the same backward as forward
# Madam=madaM
word="madam"
result=""
length=len(word)-1
for i in range(length,-1,-1):
    result=result+word[i]
    # print(word[i])
print(result)
print("paliandrome" if result==word else "not paliandrome")
```

OUTPUT

```
madam
paliandrome
PS C:\Users\HP\Desktop\PYTHON FULLSTAC
```

- Q4: Python program to check if a given number is an Armstrong number
- -> An Armstrong number is a number that equals to the sum of its individual,

digits each raised to the power of the number of digits eg:-153

```
number of digits = 3
1^3+5^3+3^3=1+125+27=153
```

PROGRAM

```
# Q4: Python program to check if a given number is an Armstrong number
# ->An Armstrong number is a number that equals to the sum of its individual,digits
# eg:- 153
# number of digits = 3
# 1^3+5^3+3^3=1+125+27=153
num=input("enter number=")
digit_count=len(num)
num=int(num)
original=num
sum=0

while(num!=0):
    digit=num%10
    exp=digit**digit_count
sum=sum+exp
num=num//10
print(sum)
if(original==sum):
    print("number is armstrong")
else:
    print("number is not armstrong")
```

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OUTPUT

```
enter number=153
153
number is armstrong
PS C:\Users\HP\Desktop\PYTHON FULLSTACK> & C:/Users/HP/AppDat
p/PYTHON FULLSTACK/PYTHON CORE & ADVANCED/LOOPING/WHILE LOOP/
enter number=567
684
number is not armstrong
PS C:\Users\HP\Desktop\PYTHON FULLSTACK>
```

Q5: Python program to get the Fibonacci series between 0 to 50 PROGRAM

```
# Q5: Python program to get the Fibonacci series between 0 to 50
prev=0
current=1
limit=50
next=1
print(prev)
print(current)
while(next<=limit):
print(next)
prev=current
current=next
next=current+prev</pre>
```

OUTPUT

```
PS C:\Users\HP\Desktop\PYTHON FULLSTACK> & C:/Use
p/PYTHON FULLSTACK/PYTHON CORE & ADVANCED/TASK 2/0
1
1
2
3
5
8
13
21
34
```

Q6: Python program to check given number is prime or not

PROGRAM

OUTPUT

```
enter number=5
True
PS C:\Users\HP\Desktop\PYTHON FULLS
```