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Assignment - 4

```python
# To display Fibonacci series

num = int(input("Enter how many number you want to display:"))
a = 0
b = 1
c = 2
print("Fabonacci Series is")
print(a)
print(b)
while(c<num):
    d = a + b
    print(d)
    a = b
    b = d
    c += 1
```

```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/Users/HP/Py
Enter how many number you want to display:10
Fabonacci Series is
0
1
1
2
3
5
8
13
21
34

Process finished with exit code 0
```

```python
#sum of digits
n=int(input("Enter a number:"))
sum = 0
while(n>0):
    rem = n%10
    sum = sum + rem
    n=int(n/10)
print("The sum of digits is:",sum)
```

```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/Users/HP/PycharmProjects/assignm
Enter a number:678
The sum of digits is: 21

Process finished with exit code 0
```

assignments › venv › program.py

program.py ×   Assign4solvedprogr.py ×   PractAssignment1.py ×

```python
# Reverse of a number
n = int(input("Enter the number: "))
rev = 0
while (n > 0):
    rem = n % 10
    rev = (rev * 10) + rem
    n = int(n/10)
print("Reverse of number is :",rev)
```

Run: program ×

```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/Users/HP/PycharmProjects/assignm
Enter the number: 785
Reverse of number is : 587

Process finished with exit code 0
```

assignments › venv › program.py

program.py ×   Assign4solvedprogr.py ×

```python
# Python program to check whether the number is an Armstrong number or not

n = int(input("Enter a number: "))
num = n
sum = 0

while n > 0:
    rem = n % 10
    sum = sum+rem*rem*rem
    n=int(n/10)
if num == sum:
    print(num,"is an Armstrong number")
else:
    print(num,"is not an Armstrong number")
```

Run: program ×

```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/
Enter a number: 153
153 is an Armstrong number

Process finished with exit code 0
```

assignments ⟩ venv ⟩ program.py

program.py ×   Assign4solvedprogr.py ×

```python
# given number is prime or not

n = int(input("Enter a number:"))
for i in range(2,n+1):
    if n % i == 0:
        break
if i == n:
    print(n,"is prime number")
else:
    print(n,"is not a prime number")
```

Run: program ×

```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/Users/HP/Py
Enter a number:16
16 is not a prime number

Process finished with exit code 0
```

TODO   Terminal   Problems   Python Packages   Python Console

Event Log

6:1 CRLF UTF-8 3 spaces* Python 3.8 (assignments)

assignments ⟩ venv ⟩ program.py

program.py ×   Assign4solvedprogr.py ×

```python
# All even number between 1 and 100
sum = 0
for i in range(0,101,2):
    print(i)
    sum = sum + i
print("Sum of Even numbers=",sum)
```

Run: program ×

```
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
82
84
86
88
90
92
94
96
98
100
Sum of Even numbers= 2550
```

TODO   Terminal   Problems   Python Packages   Python Console

Event Log

56:1 CRLF UTF-8 3 spaces* Python 3.8 (assignments)

assignments ⟩ venv ⟩ program.py

program.py ×   Assign4solvedprogr.py ×

Run: program ×

```python
# Program to display pyramid

for i in range(1,6):
    for j in range(1,i+1):
        print(j,end=' ')
    print()
```

```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/Users/HP/Pyc
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

Process finished with exit code 0
```

TODO   Terminal   Problems   Python Packages   Python Console

9:1   CRLF   UTF-8   3 spaces*   Python 3.8 (assignments)

assignments ⟩ venv ⟩ program.py

program.py ×   Assign4solvedprogr.py ×

Run: program ×

```python
# Program to display pyramid

for i in range(1,6):
    for j in range(1,i+1):
        print(i,end=' ')
    print()
```

```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/Users/HP/Pyc
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5

Process finished with exit code 0
```

TODO   Terminal   Problems   Python Packages   Python Console

9:1   CRLF   UTF-8   3 spaces*   Python 3.8 (assignments)

Screenshot 1:

```python
# Program to display pyramid

count = 1
for i in range(1,5):
    for j in range(1,i+1):
        print(count,end=' ')
        count=count+1
    print()
```

Run output:
```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/Users/HP/Pyc
1
2 3
4 5 6
7 8 9 10

Process finished with exit code 0
```

Screenshot 2:

```python
# Program to display pyramid

for row in range(1,5):
    for sp in range(1,5-row):
        print(' ',end=' ')
    for col in range(1,row+1):
        print(col, end=' ')
    for erow in range(col-1,0,-1):
        print(erow,end=' ')
    print()
```

Run output:
```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/Users/HP/Pyc
      1
    1 2 1
  1 2 3 2 1
1 2 3 4 3 2 1

Process finished with exit code 0
```