Python Assignment Day - 6

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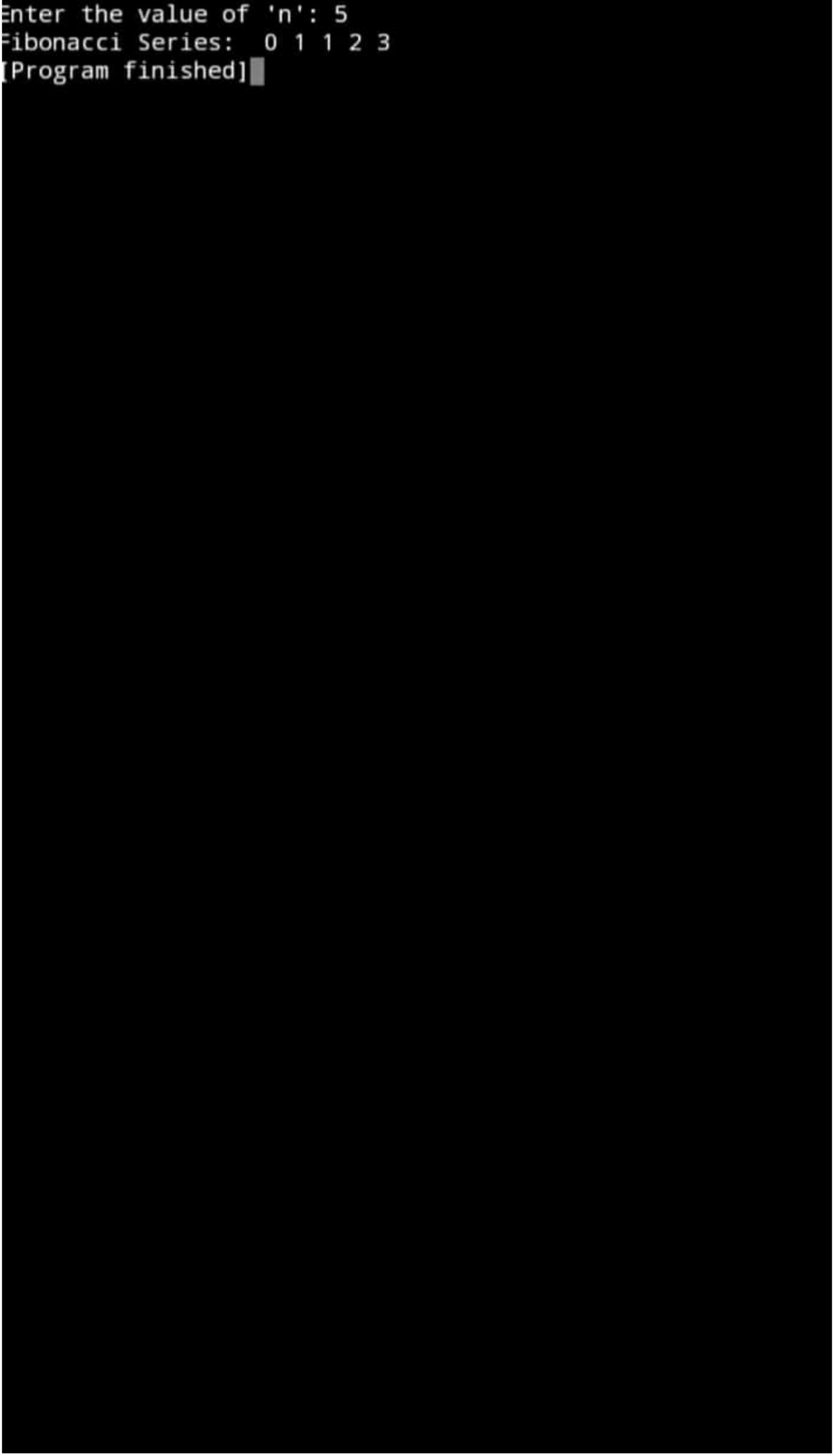
```
1 #program to convert binary to decimal
  number
2 b_num = list(input("Input a binary number:
  "))
3 value = 0
4 for i in range(len(b_num)):
5     digit = b_num.pop()
6     if digit == '1':
7         value = value + pow(2, i)
8 print("The decimal value of the number is"
9 ,value)
```

```
Input a binary number: 10101
The decimal value of the number is 21

[Program finished]
```

```
1  #Python program to generate Fibonacci
   series
2  n = int(input("Enter the value of 'n': "))
3  a = 0
4  b = 1
5  sum = 0
6  count = 1
7  print("Fibonacci Series: ", end = " ")
8  while(count <= n):
9    print(sum, end = " ")
10   count += 1
11   a = b
12   b = sum
13   sum = a + b
```



```
1 #program to find multiplication table
2 num = int(input(" enter a number:"))
3 for i in range(1,11):
4     print(num,'x',i,'=',num*i)
```

```
 enter a number:8
8 x 1 = 8
8 x 2 = 16
8 x 3 = 24
8 x 4 = 32
8 x 5 = 40
8 x 6 = 48
8 x 7 = 56
8 x 8 = 64
8 x 9 = 72
8 x 10 = 80

[Program finished]
```

```
1  #Take 10 integers from keyboard using
   loop and print their average value on the
   screen
2  a=0
3  print("Enter 10 numbers")
4  for i in range(1,11):
5      n=int(input("Enter a number:"))
6  a+=n
7  print("The average of given 10 numbers
   is:",a/10)
```

```
Enter 10 numbers
Enter a number:21
Enter a number:22
Enter a number:23
Enter a number:24
Enter a number:25
Enter a number:26
Enter a number:27
Enter a number:28
Enter a number:29
Enter a number:30
The average of given 10 numbers is: 3.0

[Program finished]
```

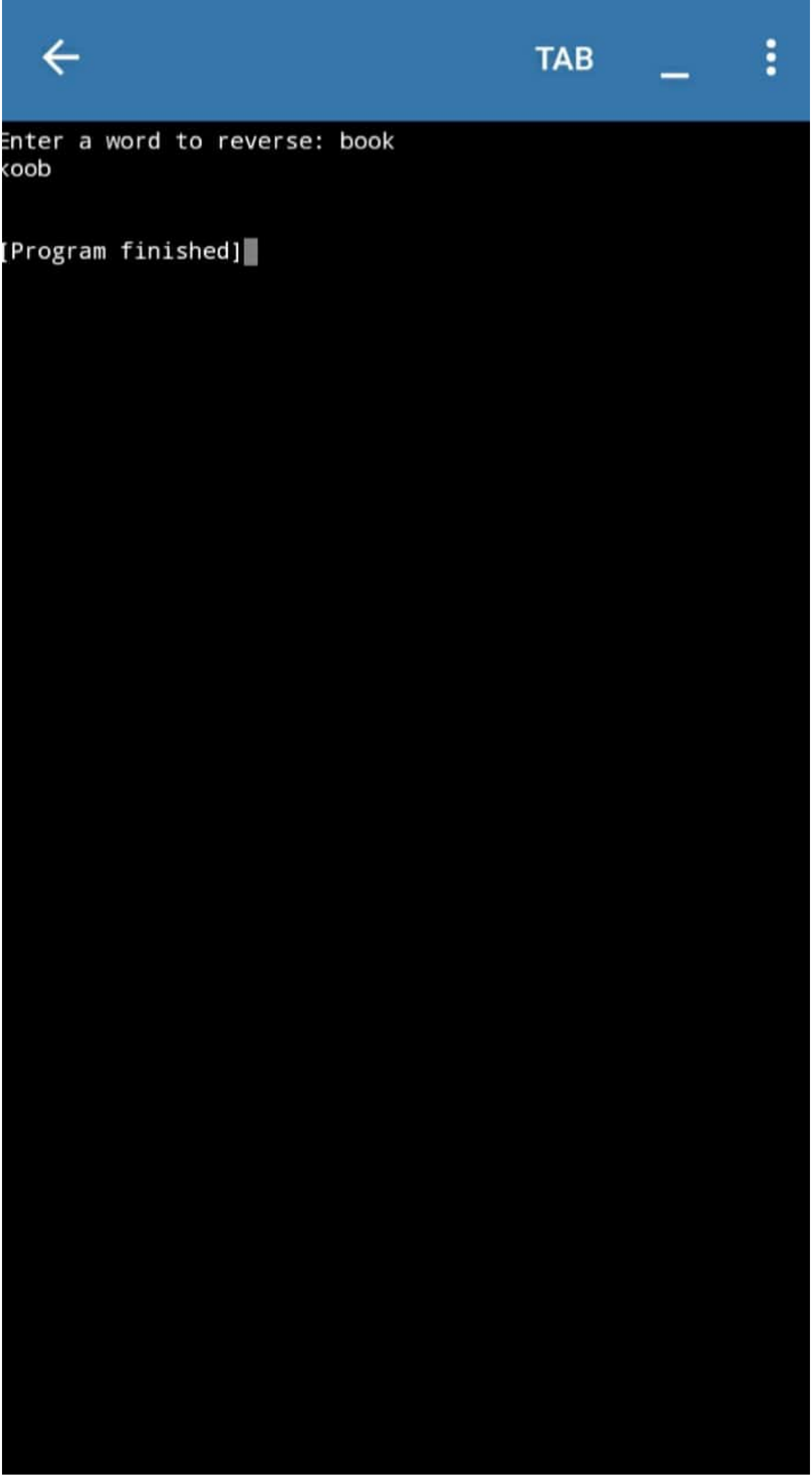
```
1
2  # program to print star pattern
3  def pypart(n):
4      for i in range(0, n):
5          for j in range(0, i+1):
6              print("* ",end="")
7          print("\r")
8  n = 5
9  pypart(n)
```

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

[Program finished]
```

```
#program to find G.C.D or H.C.F of two
numbers
def compute_hcf(x, y):
    if x > y:
        smaller = y
    else:
        smaller = x
    for i in range(1, smaller+1):
        if((x % i == 0) and (y % i == 0)):
            hcf = i
    return hcf
num1 = 12
num2 = 14
print("The H.C.F. is", compute_hcf(num1,
```

```
The H.C.F. is 2

[Program finished]
```

```
1  #program to accept the word from user
   and reverse it
2  word = input("Enter a word to reverse: ")
3  for char in range(len(word) - 1, -1, -1):
4    print(word[char], end="")
5  print("\n")
6
```



```
#Program to count number of even ,odd numbers from a series of numbers
numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9,10)
count_odd = 0
count_even = 0
for x in numbers:
    if not x % 2:
        count_even+=1
    else:
        count_odd+=1
print("Number of even numbers :", count_even)
print("Number of odd numbers :", count_odd)
```

```
Number of even numbers : 5
Number of odd numbers : 5

[Program finished]
```

```
1  #Program that prints all numbers from 0
   to 6 except 3 and 6
2  for x in range(6):
3      if (x == 3 or x==6):
4          continue
5      print(x,end=' ')
6  print("\n")
7
```

```
0 1 2 4 5

[Program finished]
```