```
b_num = list(input("Input a binary number:
"))
value = 0

for i in range(len(b_num)):
    digit = b_num.pop()
    if digit == '1':
    value = value + pow(2, i)
print("The decimal value of the number is", value)
```



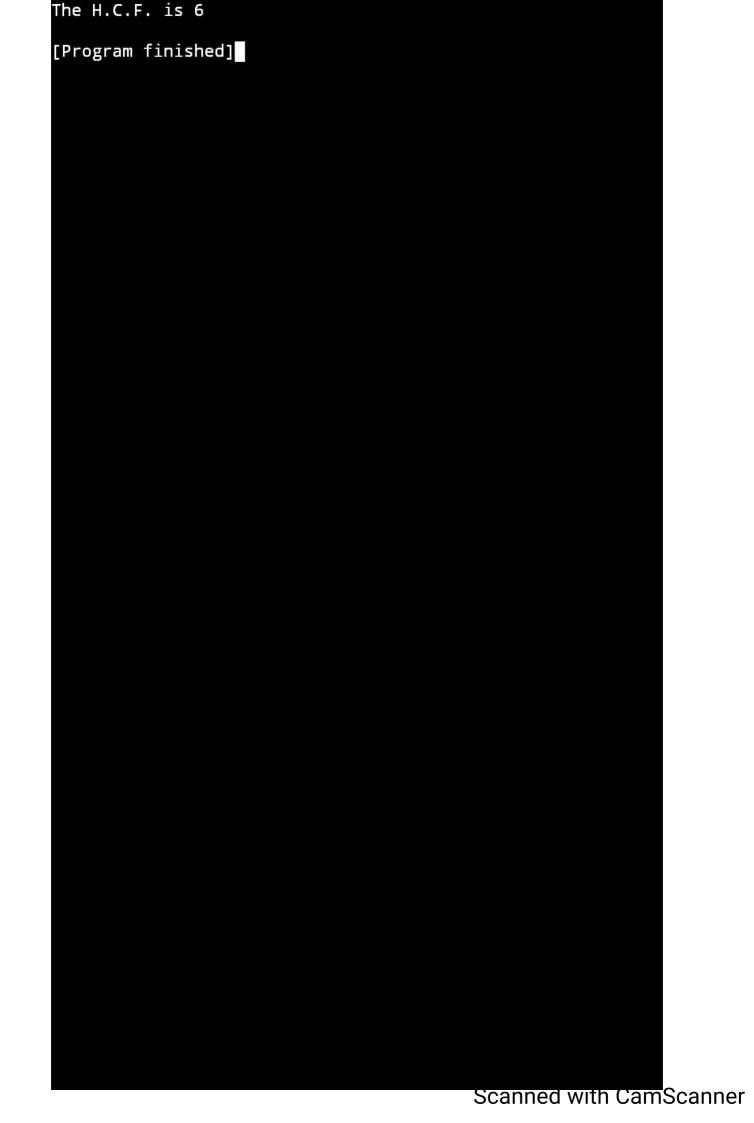
```
# Python Program to find Sum and
Average of N Natural Numbers
number = int(input("Please Enter any
Number: "))
total = 0
for value in range(1, number + 1):
  total = total + value
average = total / number
print("The Sum of Natural Numbers from
1 to \{0\} = \{1\}".format(number, total))
print ("Average of Natural Numbers from 1
to \{0\} = \{1\}".format(number, average))
```

Please Enter any Number: 4 The Sum of Natural Numbers from 1 to 4 = 10Average of Natural Numbers from 1 to 4 = 2.5[Program finished] Scanned with CamScanner

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



```
# Python program to find H.C.F of two
    numbers
 2
    # define a function
 4
    def compute_hcf(x, y):
 5
 6
    # choose the smaller number
 7
       if x > y:
 8
         smaller = y
 9
       else:
10
         smaller = x
11
       for i in range(1, smaller+1):
         if((x \% i == 0)) and (y \% i == 0)):
12
13
           hcf = i
       return hcf
14
15
16
    num1 = 54
    num2 = 24
17
18
    print("The H.C.F. is", compute_hcf(num1,
19
    num2))
```



```
word = input("Input a word to reverse: ")
for char in range(len(word) - 1, -1, -1):
    print(word[char], end="")
    print("\n")
```



Python program to count Even # and Odd numbers in a List

list of numbers

list1 = [10, 21, 4, 45, 66, 93, 1]

even_count, odd_count = 0, 0

iterating each number in list

for num in list1:

checking condition

if num % 2 == 0:

even_count += 1

else:

odd_count += 1



odd_count += 1

```
print("Even numbers in the list: ",
even_count)
```

```
print("Odd numbers in the list: ", odd_count)
```

| Even numbers in the list: 3 Odd numbers in the list: 4 | |
|---|-------------------------|
| [Program finished] | |
| | |
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| | |
| | Scanned with CamScanner |

```
1  for x in range(6):
2    if (x == 3 or x == 6):
3        continue
4    print(x,end=' ')
5    print("\n")
```

