

```
1 b_num = list(input("Input a binary number:"))
2 value = 0
3
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",
      value)
```

```
Input a binary number: 1001
The decimal value of the number is 9

[Program finished]
```

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 = 10

Average of Natural Numbers from 1 to 4 = 2.5

[Program finished]

```
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)
```



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

```
[Program finished]
```

```
1 # Python program to find H.C.F of two
  numbers
2
3 # 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):
12        if((x % i == 0) and (y % i == 0)):
13            hcf = i
14    return hcf
15
16 num1 = 54
17 num2 = 24
18
19 print("The H.C.F. is", compute_hcf(num1,
  num2))
```

The H.C.F. is 6

[Program finished]


```
1 word = input("Input a word to reverse: ")
2
3 for char in range(len(word) - 1, -1, -1):
4     print(word[char], end="")
5 print("\n")
6 |
```

Input a word to reverse: nithin
nihtin

[Program finished]

```
# 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]

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

0 1 2 4 5

[Program finished]