

Python Program

Write the following functions: (5 points for each function)

1. a function that takes an integer n and prints all numbers (1 to n inclusive) separated by a space.
2. a function that takes an integer n and prints all numbers (n to 1 inclusive) in backward separated by a space.
3. a function that takes an integer n and returns the sum of first n odd numbers (1 to n inclusive).
4. a function that takes an integer n and returns the sum of first n even numbers (1 to n inclusive).

Write a program that reads a number form the keyboard. Call each of the above functions.

Sample output with n = 10

```
Enter a number 10
print Numbers Forward:
1 2 3 4 5 6 7 8 9 10
print Numbers Backward:
10 9 8 7 6 5 4 3 2 1
sum of odd numbers: 25
sum of even numbers: 30
```

Write all the above 4 functions in a .py file.