

Day-2

Python Learning

1. Write a program called basic_math.py which includes following functions :

- even_number(n) :
prints all the even numbers till user input **n**
- odd_number(n)
prints all the odd numbers till user input **n**
- all_sum(n)
 - calculates the total sum of number till user input n
 - For example :
Please enter the number: 5

Current Number: 0 Previous number: 0 Sum: 1
Current Number: 1 Previous number: 0 Sum: 1
Current Number: 2 Previous number: 1 Sum: 3
Current Number: 3 Previous number: 2 Sum: 5
Current Number: 4 Previous number: 3 Sum: 7
- make_list(n)
 - creates a list unitl **n**
 - Add elements in the list (make sure to add repeating elements)
 - remove duplicates
 - print both original list and final list
 - example:
 - original list : [1, 2, 2, 4, 4, 6, 8, 2]
 - new list: [9, 6, 8, 4]

skeleton code :

```
def even_number(n):  
    @TODO  
  
def odd_number(n):  
    @TODO  
  
def all_sum(n):  
    @TODO  
  
def make_list(n):  
    @TODO  
  
def main():  
    @TODO  
    - User input  
    - call all functions above  
  
if __name__ == '__main__':  
    main()
```