Kjc4 4 CREDITS

NARRATIVE FOR HOMEWORK2

D4

1. This program has a for loop that goes through each value of i in the range(1,10) which are 1,2,3,4,5,6,7,8,9 and prints out the square of that value
2. This program has a for loop that goes through each value of i in the list [1,3,5,7,9] , prints out the value of I, followed by a colon and then the value of the cube of I together . It then prints out the last value of I it encountered which is 9
3. X is declared as 2, y is declared as 10.The loop in this program has a range(0,y,x) . this range starts at 0, adding a step of 2 with each execution of the for loop and stops at 9. It prints out the value of j joined to the sum of x and y, for each value of j in range(0,10,2). It then prints out the string “done”.
4. Ans is declared as 0, the loop goes through I in the range(1,11) starting at 1 and ending at 10. At each execution of the loop , Ans is used as an accumulator and the square of the value of I is added to value of ans then the value of I is printed out. At the end of the loop , the value of ans is printed out.

PE11

The first thing I did here was to declare a variable total\_sum as 0, then I asked the user to input the value of n and stored the value in a variable nat. I used a for loop with range (1, nat+1) so that it starts at 1 and ends at nat. I then used total\_sum as an accumulator adding each value of n to the total\_sum with each execution of the loop. I then printed out the value of total\_sum. I tested the program with 3 as the value of n and it printed out the sum of the first 3 natural numbers which is 6

PE13

Here I declared a variable total\_sum as 0 which served as the accumulator. I asked the user how many numbers they would like to sum. I stored that value as a variable amt. I used a for and range variable to loop through each value in amt such that range(amt). I then asked for user for a number at each stage . This number was stored as num1 and added to the accumulator total\_sum. At the end I printed out the value of total\_sum. I tested the program with the value 2 and it prompted the user for input twice and printed out the sum of the numbers the user inputted.

PE12

This program is similar to PE11. Here I added num = num \*\* 3 as the first statement of the for loop so that it cubes the value of num and then stores that value back in num . this value of num is then added to total\_sum. At the end I printed out total\_sum . I tested it with the value 2 as n and it printed out 9 which is correct

PE14

This program is similar to PE13. Here I declared a variable avg to store the value when total sum is divided by amt. This gives the average which I then printed out. I tested it with the value 2 and it prompted the user for input twice and then printed out the average of those numbers the user inputted.