# Test 01 Programming Paradigms

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#### Q 1 . Mapping, Filtering through Lists

#### Code:

## **Output:**

```
High Income Salaries: [120000; 190000; 300113]

Tax Amounts: [12678.9; 7200.0; 23111.7; 42548.0304; 77909.7156; 16163.9; 5400.0]

Boosted Low Salaries: [75000; 68000; 120000; 190000; 300113; 92000; 56000]

Mid Range Sum: 167000

kuhar@fedora:~/Documents/Learn/F#/Test 01$
```

### **Q2**: Tail Recursion

#### Code:

```
let sumMultiples0f3 n =
let rec loop current acc =
if current > n then acc
else loop (current + 3) (acc + current)
loop 3 0
printf "Enter a number: "
let userInput = System.Console.ReadLine() |> int
printfn "%d" (sumMultiples0f3 userInput)
```

## Output:

```
kuhar@fedora:~/Documents/Learn/F#/Test 01$ dotnet fsi Test_Q2.fsx
Enter a number: 927
143685
kuhar@fedora:~/Documents/Learn/F#/Test 01$
```