Note: Stream interface method map(function), filter(predicate), forEach(consumer)

Inside java.util.function package we get Predicate, Function, Consumer, Supplier

Predicate (I) has boolean test(T t) method

# Predicate (it accepts a value/object then checks some condition and return boolean)

It has method test()

(Q1) Write a function which will check given number is even or odd?

(Q2) WAF to check if given String length is greater than 4 or not?

(Q3) There is a Array of String which contains names. Print all those names who has length more than 4. Example “Sumit” than print it but “John” is not greater than 4 so ignore it.

Hint: iterate array and use predicate inside if condition or else use stream().filter().map()

(Q4) There is a List of Employee(name, salary, experience). Print all employee name who has salary >50 k and experience >3 yr.

# Function (accept single object/value and transform it then return it)

It has method apply()

(Q5) WAF to squire given number?

(Q6) there is an array of integer. You have to add 5 in each element of it.

Note: filter(Predicate) 🡪stream.filter takes predicate and map(function) 🡪map takes function

(Q7) WAF to accept String as argument and return it’s length?

(Q8) WAF which accept Employee (name, salary) object and return his bonus. If salary>10k and <20k than bonus is 10%. If salary>20k and <30k than bonus is 15 % of salary? Else 20 %.

Note: Create a list of Employee objects.

(Q9) in Q8 Program if bonus is greater than 30K than on that bonus he has to pay 20% Tax.

Hint: use predicate with function

(Q10) Create two function first to return n\*2 and second to return n\*n. and use function Channing (andThan and compose)?

# Consumer (Accept data, do some task, and not return anything)

It has method accept(T t)

(Q11) Create a Employee Object (name, salary) then store it inside List. Get salary of each employee and give him bonus (10% of his salary). Then print the details of only those employee who gets more than 5K bonus.

# Supplier (it does not take any value but return object/value)

(Q12) Create a function using Lambda expression which will return current Date() object?