**1.Finding a keyword in a sentence**

Search a word in the sentence.

Sample Input:

Sentence: "The min and max joining date from all the student's data".

Search Word: "joining"

Sample Output:

If the search word is found. Print "joining".

\*\*\*If the search word is not found. Print the log "\*\*\*Search word not found".

**2.Read file extensions from file name**

Print file extension of the given file name.

Sample Input: Global.mp4

Sample Output: mp4

**3.Count & replace of repeated keyword**

Print the count of repeating values in the given input data and should replace last repeated value with ‘1’.

Sample Input: ["one", "two", "one", "four", "five", "one", "three"]

Sample Output1: 3 (Count of repeating value)

Sample Output2: ["one", "two", "one", "four", "five", "1", "three"]

**4.Dynamic Object Keys & Values**

Prepare the dynamic object keys and values using loops for the provided n value. Where key should And for the key should be index value and for the values should be concat of prefix 'IP' and index value.

Sample Input: n = 2

Sample Output: { 0 : "IP0", 1 : "IP1" }

**5.Arrays**

* **An array 'xy' consists of duplicate and unique values data. Declare new two arrays 'x' and 'y'. Push the repeated values to the array 'x'. And the unique values to the array 'y'.**
  + **Sample Input: xy = [4, 8,2,9,4,1,3,2,6,6]**
  + Sample Output: x = [4, 2, 6], y= [8, 9, 1, 3]
* **There is a student's data that consists of an array of object values. Remove or filter the empty objects in the provided data. And find the min and max joining date from all the student's data.**
  + **Sample Input : [**

{

"studentName": "Jack",

"rollNumber": 1,

"joiningDate": "13/01/2021"

},

{},

{},

{

"studentName": "Rowling",

"rollNumber": 2,

"joiningDate": "11/01/2021"

},

{

"studentName": "Ali",

"rollNumber": 3,

"joiningDate": "21/03/2021"

},

{},

{

"studentName": "Rowling",

"rollNumber": 4,

"joiningDate": "21/03/2021"

},

{

"studentName": "Rowling",

"rollNumber": 6,

"joiningDate": "10/12/2021"

},

{

"studentName": "Ali",

"rollNumber": 5,

"joiningDate": "9/11/2021"

},

{},

{}

]

Sample Output: Minimum joining date- "11/01/2021", Maximum joining date - "10/12/2021"

**6.Group Employees Data by Salary**

Group the employee's data by their salaries. And prepare the output data in two ways.

**Sample Input: [**

{

"employeeId": "EMP1",

"salary": 10000

},

{

"employeeId": "EMP2",

"salary": 15000

},

{

"employeeId": "EMP3",

"salary": 24200

},

{

"employeeId": "EMP4",

"salary": 10000

},

{

"employeeId": "EMP5",

"salary": 10000

},

{

"employeeId": "EMP6",

"salary": 24200

},

{

"employeeId": "EMP7",

"salary": 37600

},

{

"employeeId": "EMP8",

"salary": 15000

}

]

*Prepare an array of the object where one object should contain details of a one salary amount employees.*

*Sample Output1: [*

{

"salary": 10000,

"employees": [

"EMP1",

"EMP4",

"EMP5"

]

},

{

"salary": 15000,

"employees": [

"EMP2",

"EMP8"

]

},

{

"salary": 24200,

"employees": [

"EMP3",

"EMP6"

]

},

{

"salary": 37600,

"employees": [

"EMP7"

]

}

]

*Prepare one dynamic object. Where it should contain key and values as key should be referring salary value and value should be employees information.*

**Sample Output 2: {**

"10000": [

"EMP1",

"EMP4",

"EMP5"

],

"15000": [

"EMP2",

"EMP8"

],

"24200": [

"EMP3",

"EMP6"

],

"37600": [

"EMP7"

]

}