1. Rita is the class captain, and she has been given the task to properly compile what the students want for lunch. She is given a list of students, a list of what each student wants for lunch and her job is to return a dictionary that contains the information.

The problem lies in the list of what each student wants: The student name and item are joined together. The format is “StudentnameItem”. Your job is to separate the item from the name, and save it in the dictionary in the format **‘Studentname’:’Item’.** You can assume that all names will have at least 3 letters, student names will not be repeated and they will not exist in the items.

**Write a function “MakeLunch” that takes 2 lists as parameters, and returns the new dictionary.**

[CO1, CO6]

[10 marks]

**Given Input 1:**

Studentlist = [‘Robin’, ‘Bob’, ‘Harry’]

StudentItems = [‘BobBurger’,’Robinpizza’, ‘Harryrice’]

ItemsDictionary = MakeLunch( Studentlist, StudentItems )

**Content of ItemsDictionary :**

{‘Bob’: ‘Burger’, ‘Robin’: ‘pizza’, ‘Harry’: ‘rice’}

**Given Input 2:**

S1 = [‘Anna’, ‘Ben’]

S2 = [‘Annasandwich’,’Benchicken’]

D1 = MakeLunch( S1, S2 )

**Content of D1 :**

{‘Anna’: ‘sandwich’, ‘Ben’: ‘chicken’}

1. Use Binary search to find 5 in the list [2, 15, 30, 31, 32 ]. Show your complete simulation.

[CO5]

[10 marks]

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**Given Input 1:**

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ItemsDictionary = MakeLunch( Studentlist, StudentItems )

**Content of ItemsDictionary :**

{‘Bob’: ‘Burger’, ‘Robin’: ‘pizza’, ‘Harry’: ‘rice’}

**Given Input 2:**

S1 = [‘Anna’, ‘Ben’]

S2 = [‘Annasandwich’,’Benchicken’]

D1 = MakeLunch( S1, S2 )

**Content of D1 :**

{‘Anna’: ‘sandwich’, ‘Ben’: ‘chicken’}

1. Use Linear search to find 5 in the list [7, 1, 3, 5, 2]. Show your complete simulation.

[CO5]

[10 marks]