Q1- Create a list of items consisting of following parameters:

a) Product Id

b) Product name

c) Price

d) Year of Manufacture

on this list do the following operations:

1. Get a separate list for Product name and product price, merge them to form a new list called “Sub\_ list”.
2. Sort the list according to prices >=10$. (use lambda method)
3. Update the price of item 3 to 30$.
4. Take out only the product id and product name from the original list and keep rest as it is in new list.
5. Return the index values of the list
6. Remove last item from the original list and replace it some other item.
7. Clear the list.

Q2- Implement stack using python. Insert elements in stack depending on user input. Notify the user that stack is empty or not.

Q3-Implement queue using python. Insert elements in queue depending on user input. Notify the user that que is empty or not.

Q4 -Demonstrate how list can be converted to tuple with example.

Q5- Demonstrate swapping of variables in python using Fibonacci series.

Q6-consider following set

First= {1,2,4,9,10} , second={2,4,8,9,11}

Perform the following tasks on the set

1)union operation

2)Intersection

3)difference

4)symmetric difference

Q7 – Wap to check if entered number is an Armstrong or not.

Q8- Wap to print all even numbers from 1 to range entered by the user

Q9- Wap to print all prime numbers between 1 to 11.

Q10-Wap to check if string entered by the user is palindrome or not

Q11- Convert following string “tHiS IS PyThOn” to “ThIs is pYtHoN”

Q-12 – write code for following output:

2

4

6

8

10

We have (total number) of even numbers

Q13- find length of string without using len function.

Q14-explain with code Fizz- Buzz algo

Q15-