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SUBJECT CODE	CE 259	SUBJECT NAME	Python
DATE OF EXAM	30 April 2021		

DEFINITION:

Q. 1

In this exercise, you will create a program that reads words from the user until the user enters a blank line. After the user enters a blank line, your program should display each word entered by the user exactly once. The words should be displayed in the same order that they were entered.

For example, if the user enters:

first
second
first
third
second

then your program should display:

first
second
third

SOLUTION:

```
status=True
unique=list()
while(status):
    word=input("Enter the word : ")
    if word ==" :


        status=False
    else:
        unique.append(word)
uniqueList=list()
for value in unique:
    if value not in uniqueList:
        uniqueList.append(value)
print("The words you entered are : ")
for value in uniqueList:
    print(value)
print("----------------------------")
print("PARTH PATEL\n19DCS098")
```

OUTPUT:

```
Enter the word : first
Enter the word : second
Enter the word : first
Enter the word : third
Enter the word : second
Enter the word :
The words you entered are :
first
second
third
------------------------------
PARTH PATEL
19DCS098
```

DEFINITION:

Q.2
Write a function that takes the lengths of the two shorter sides of a right triangle as its parameters. Return the hypotenuse of the triangle, computed using Pythagorean theorem, as the function's result. Include a main program that reads the lengths of the shorter sides of a right triangle from the user, uses your function to compute the length of the hypotenuse, and displays the result.

SOLUTION:

```
from math import sqrt
def Pythagorus(x,y):
    return int(sqrt(((x**2)+(y**2))))


def main():
    len1=int(input("Enter the length of first shorter side of right angled triangle : "))
    len2=int(input("Enter the length of second shorter side of right angled triangle :"))


    hypotenuse=Pythagorus(len1,len2)


    print("Length of the hypotenuse from pythagorus theorem is : ",hypotenuse)


    print("----------------------------------------------------------------")
```

```
    print("PARTH PATEL\n19DCS098")
if __name__=="__main__":
    main()
```

OUTPUT:

```
Enter the length of first shorter side of right angled triangle : 3
Enter the length of second shorter side of right angled triangle :4
Length of the hypotenuse from pythagorus theorem is :  5
------------------------------------------------------------------
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```