Syrian Arab Republic

Lattakia - Tishreen University

Department of Communication and electrical engineering

5th Network Programming : Homework No1

الجمهورية العربية السورية

اللاذقية -جامعة تشرين

كلية الهندسة الكهربائية والميكانيكية

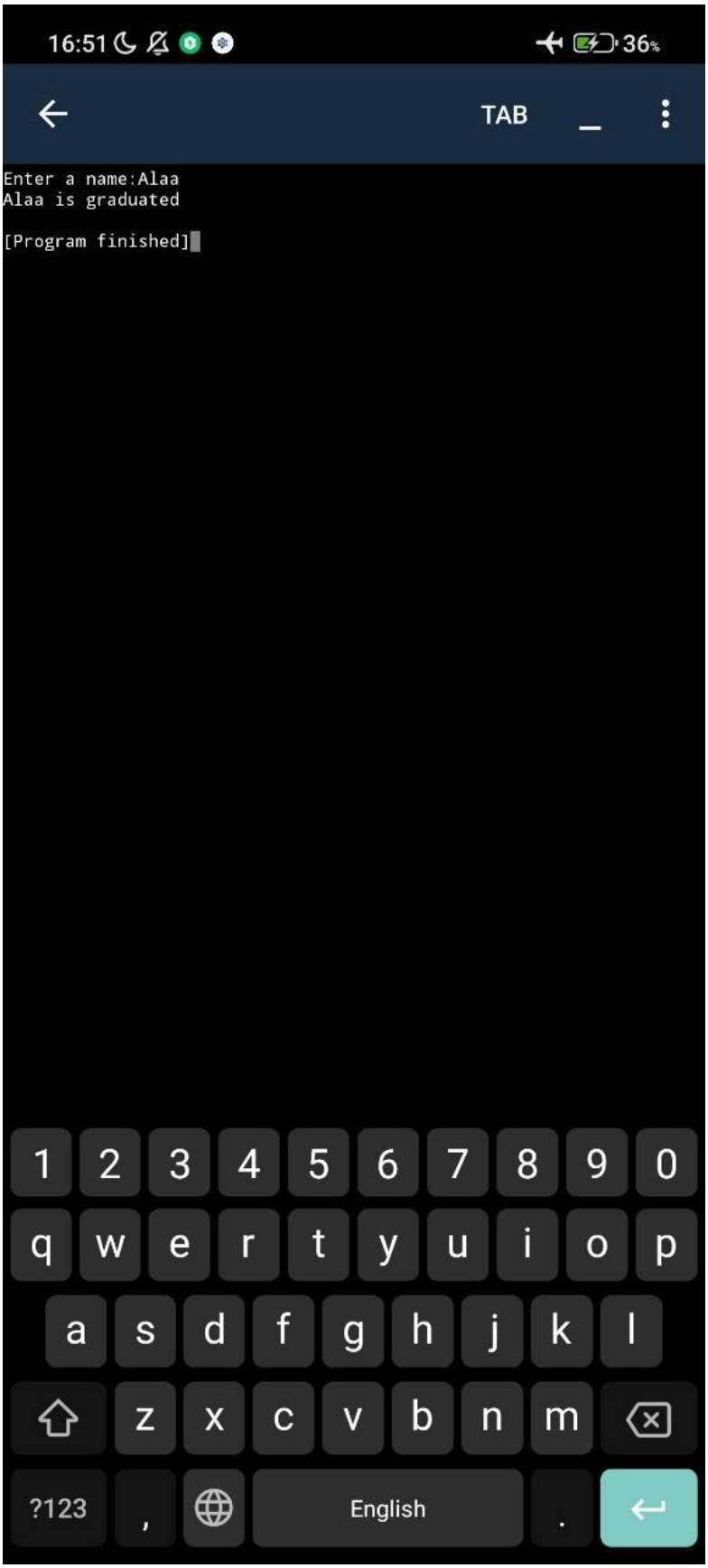
قسم هندسة الاتصالات والالكترونيات

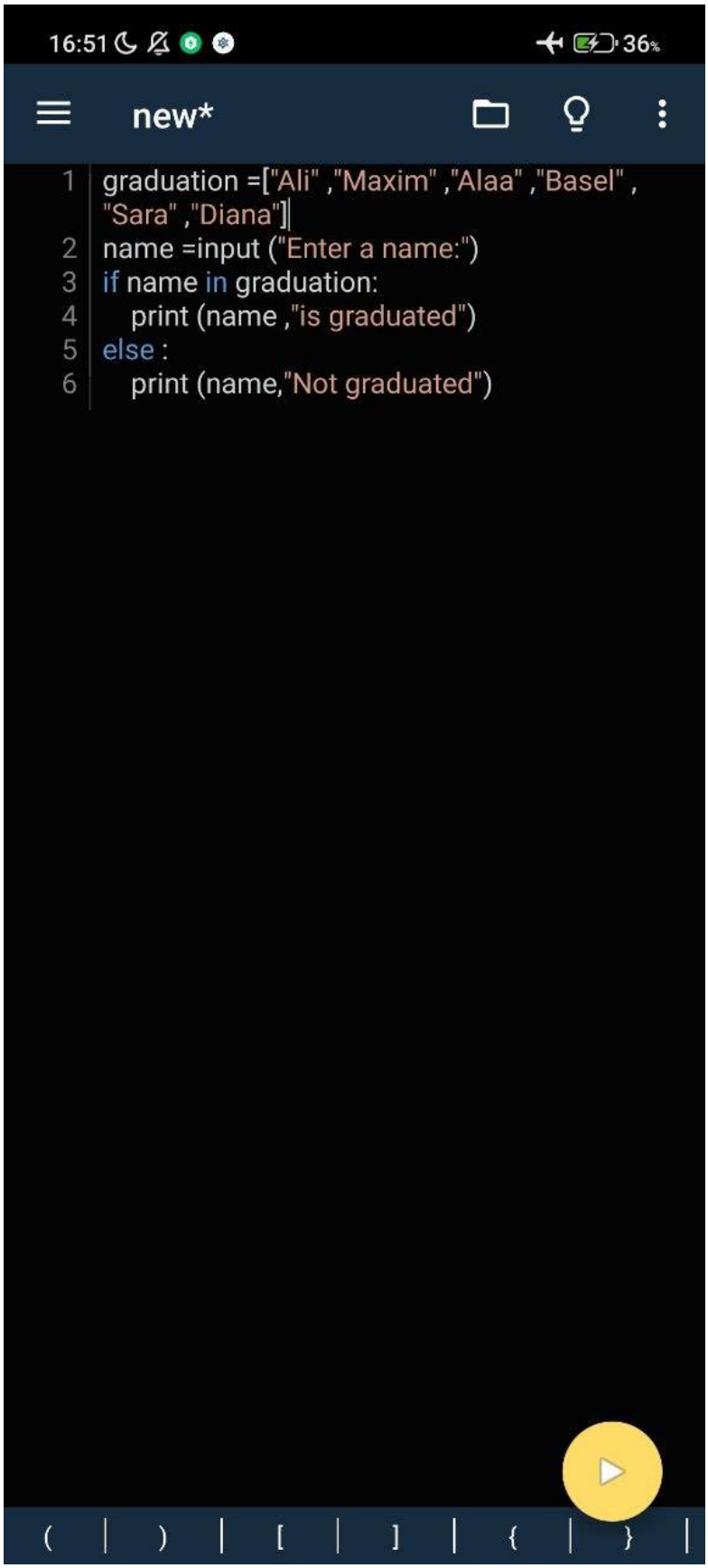
السنة الخامسة: وظيفة١ برمجة شبكات

Q1:

A: define a list that contain the names of graduated students “5 students at least”:create a program that accept student name and prints if if the user is graduated or not.

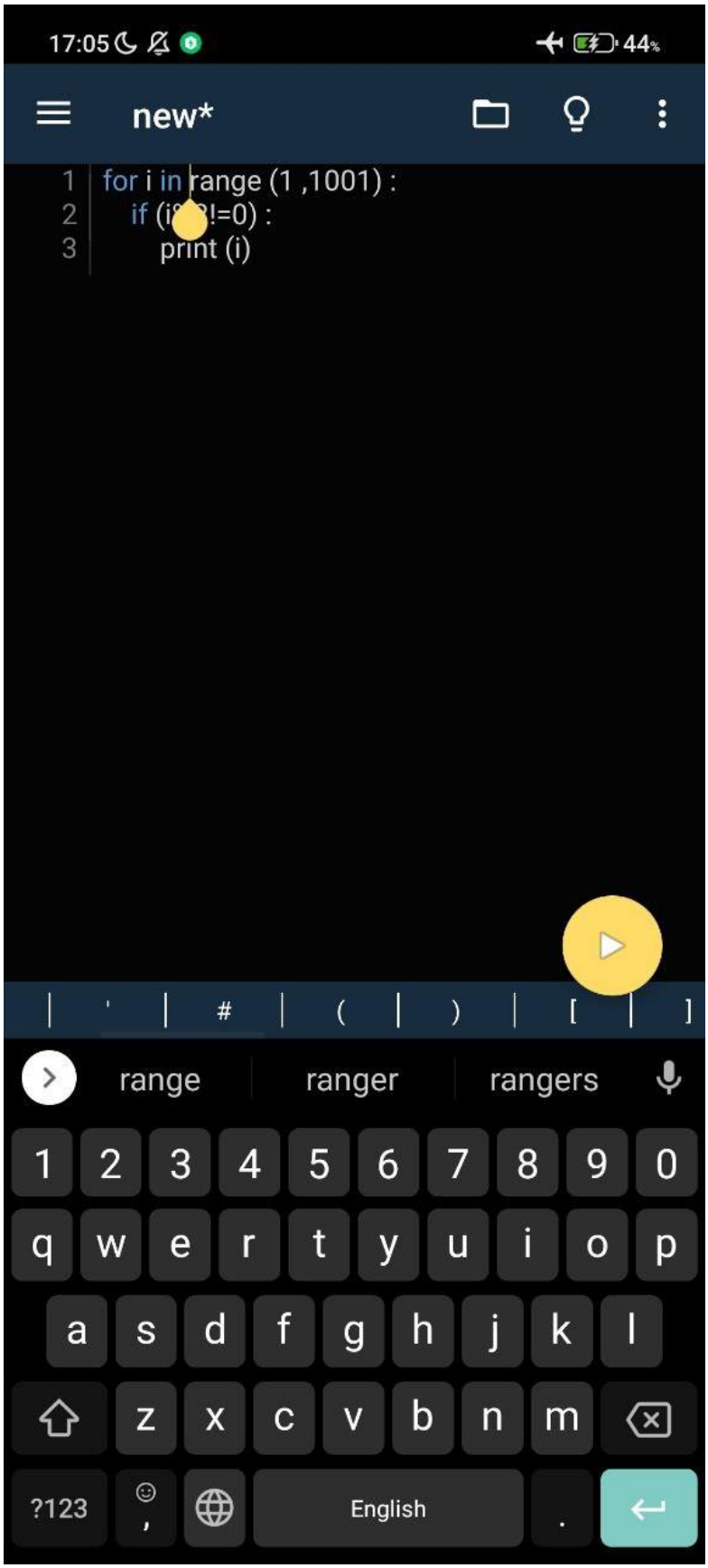
Answer:

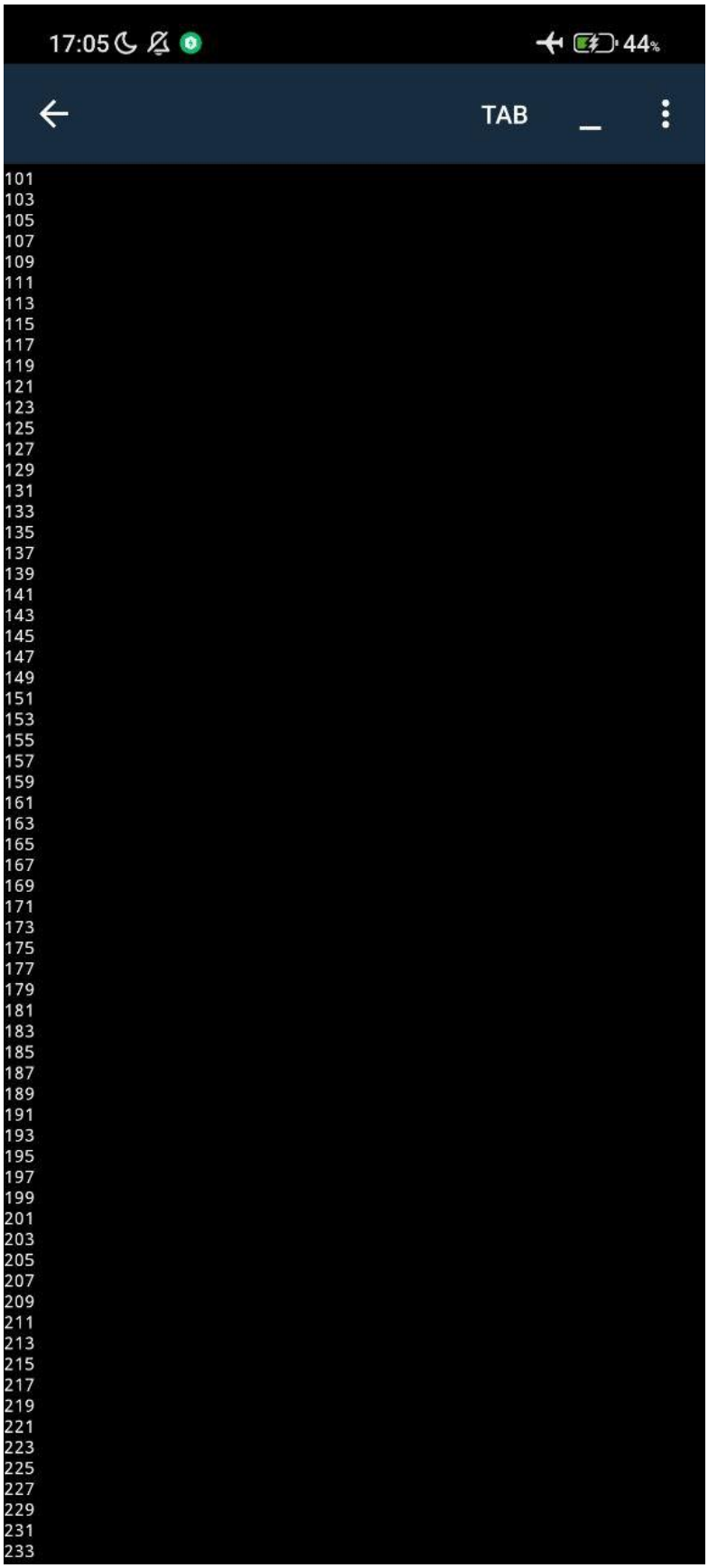

16:51
36%
TAB
Enter a name:Alaa
Alaa is graduated
[Program finished]
1 2 3 4 5 6 7 8 9 0
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
?123
English


16:51
36%
new*
graduation =["Ali" ,"Maxim" ,"Alaa" ,"Basel" ,
"Sara" ,"Diana"]
name =input ("Enter a name:")
if name in graduation:
print (name ,"is graduated")
else :
print (name,"Not graduated")
( ) [ ] { }

B:Generate and print a list of odd numbers from 1 to 1000.

Answer:


17:05
44%
new*
1 for i in range (1 ,1001) :
2 if (i%2!=0) :
3 print (i)
range
ranger
rangers
1 2 3 4 5 6 7 8 9 0
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
?123
English


17:05
44%
TAB
101
103
105
107
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131
133
135
137
139
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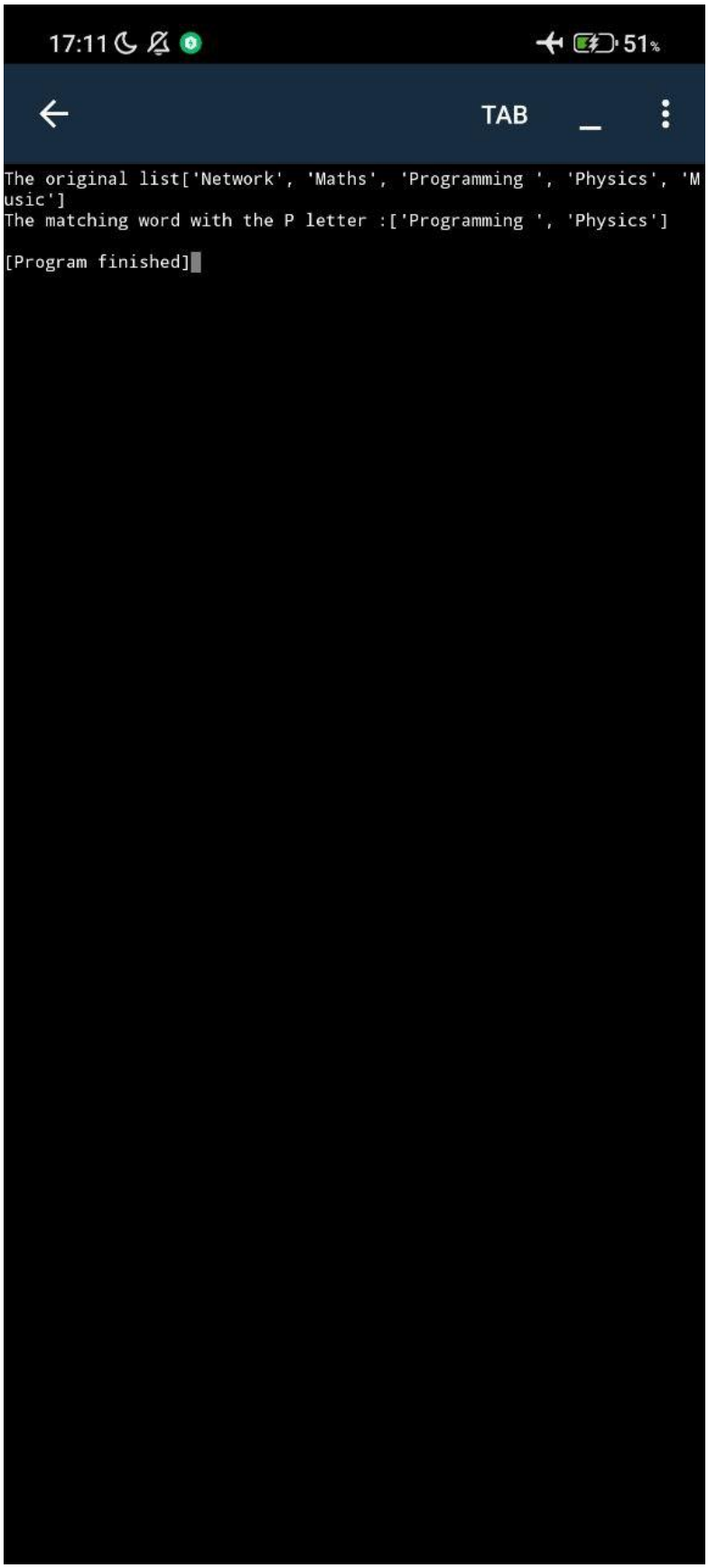
C:L=[‘Network’,’Math’,Programming’,’Physics’,’Music’]

In this exercise, you will implement a python program that reads the items of the previous list and identifies

The Items that starts with ‘P’ letter , then print it on screen

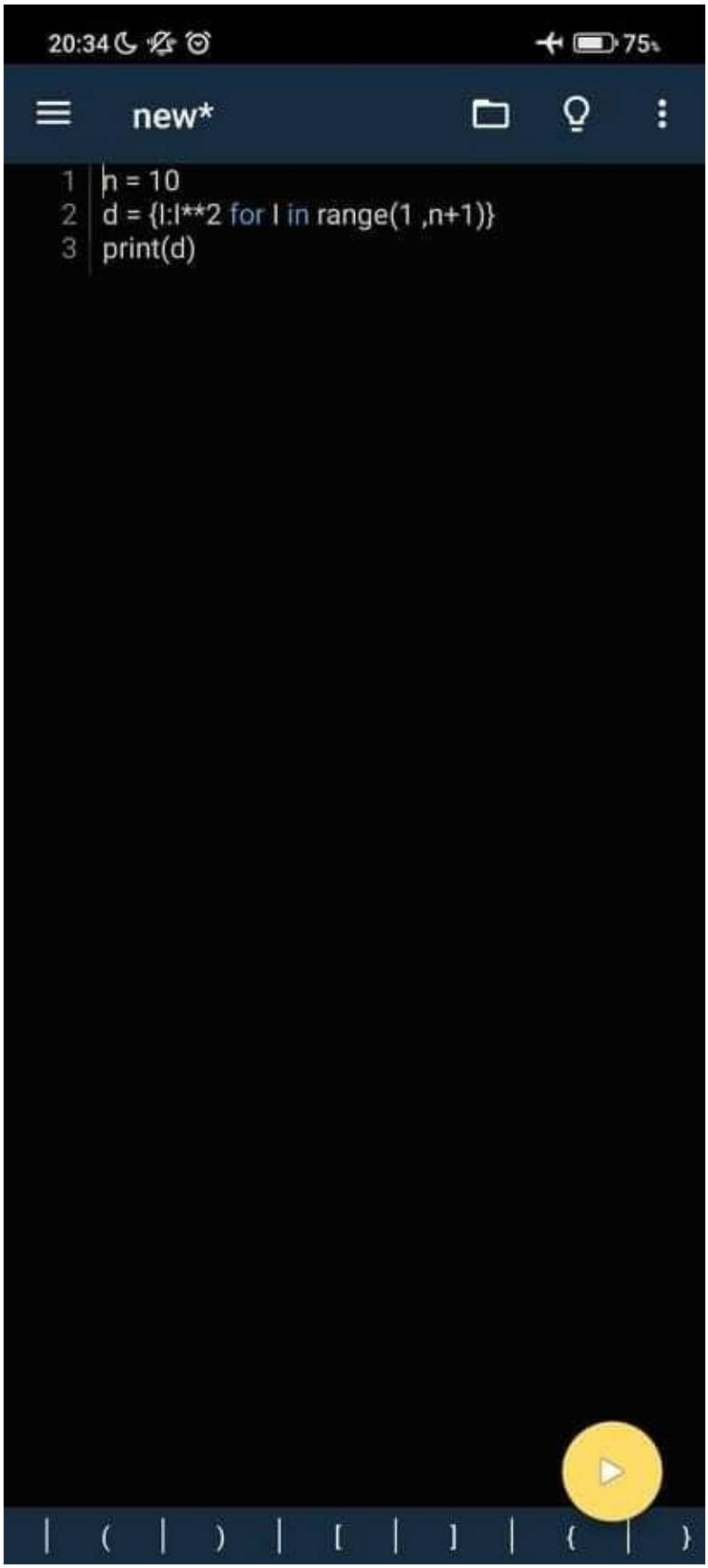
Answer:

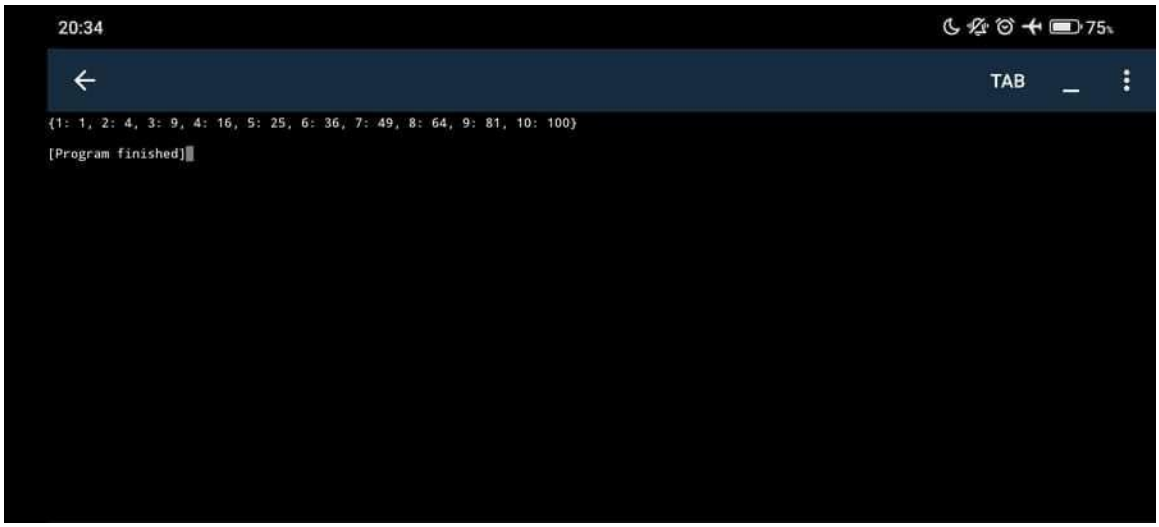

17:11
51%
new*
L =["Network" ,"Maths" ,"Programming ",
"Physics" ,"Music"]
check= 'P'
#Printing the original list
print ("The original list" + str(L))
result =[elem for elem in L if elem[0].
lower()==check.lower()]
#After checking the condition,print the result
print ("The matching word with the P letter :" +
str(result))
( ) [ ] { }


17:11
51%
TAB
The original list['Network', 'Maths', 'Programming ', 'Physics', 'M
usic']
The matching word with the P letter :['Programming ', 'Physics']
[Program finished]

D: Using Dictionary comprehension , Generate this dictionary
d={1:2,2:4,3:9,4:16,5:25,6:36,7:49,8:64,9:81,10:100}

Answer:

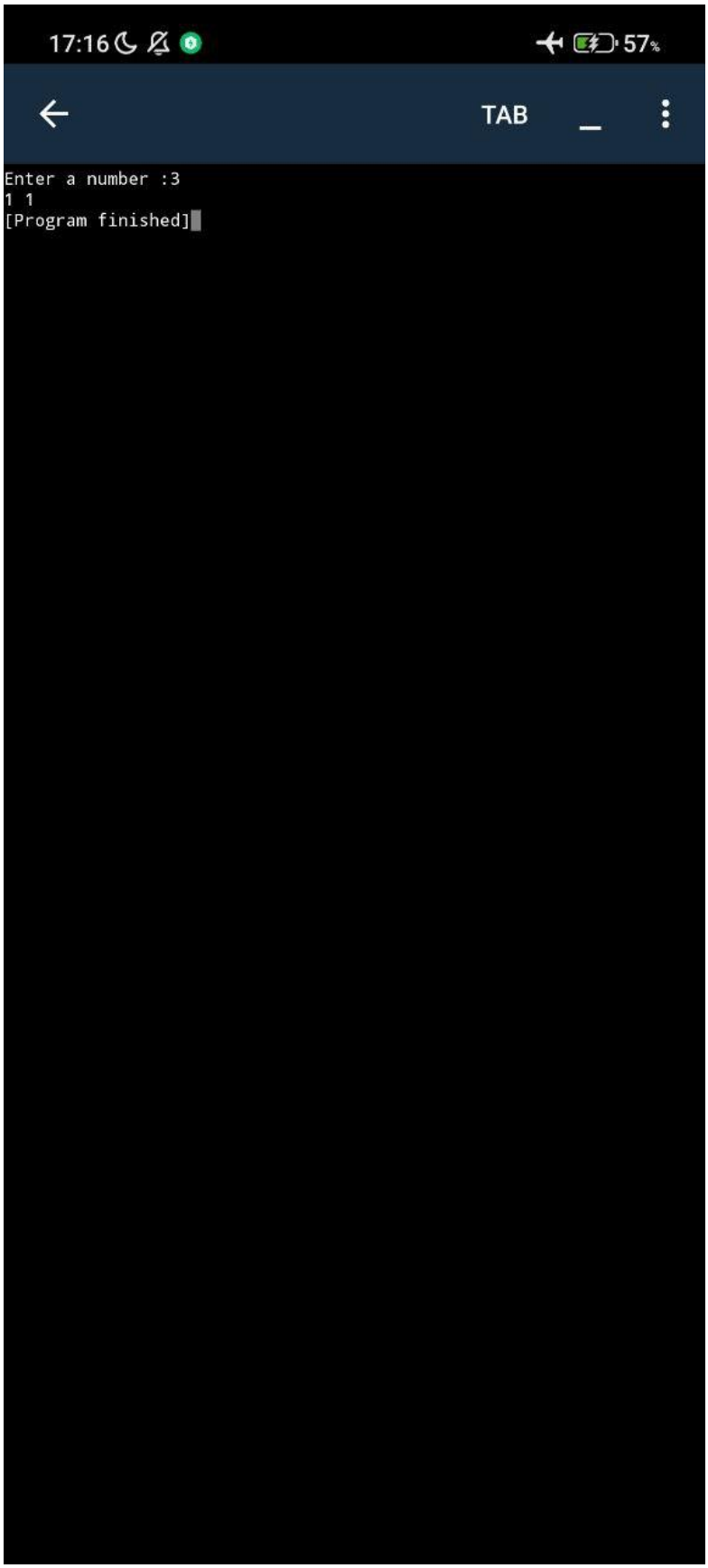

20:34
75%
new*
1 n = 10
2 d = {l:l**2 for l in range(1 ,n+1)}
3 print(d)
|
(
)
[
]
{
}

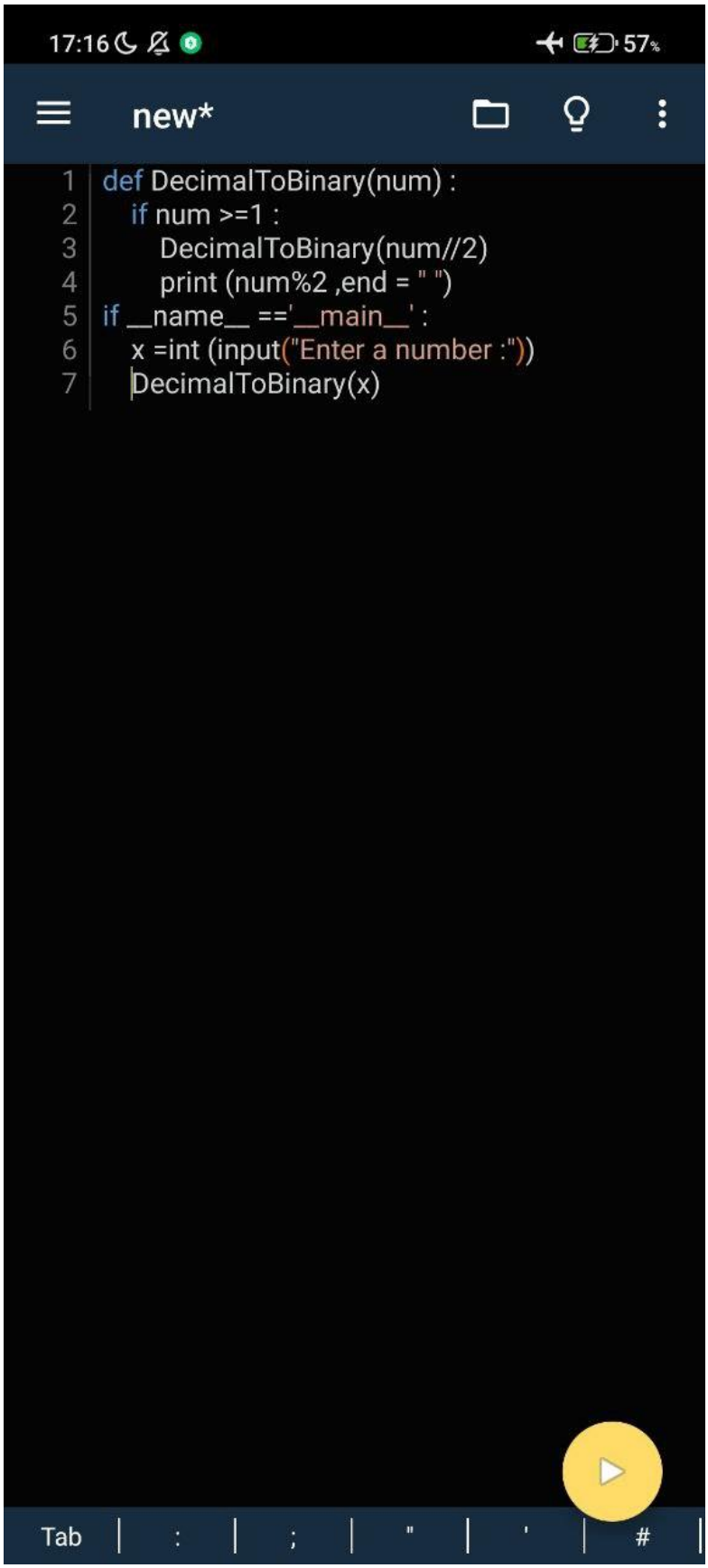


Q2:

Write a python program that converts a decimal number into its equivalent binary number. the program should start reading the decimal number from the user . then the binary equivalent number must be calculated . finally , the program must display the equivaent binary number on the screen.

Answer:

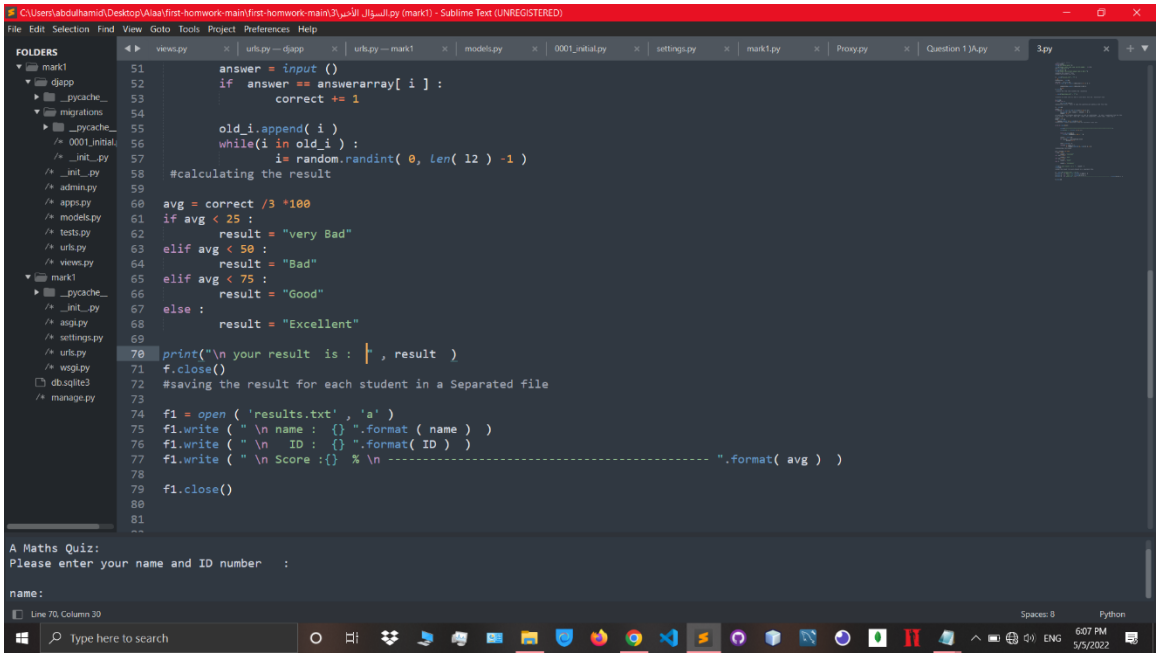

17:16
57%
TAB
Enter a number :3
1 1
[Program finished]

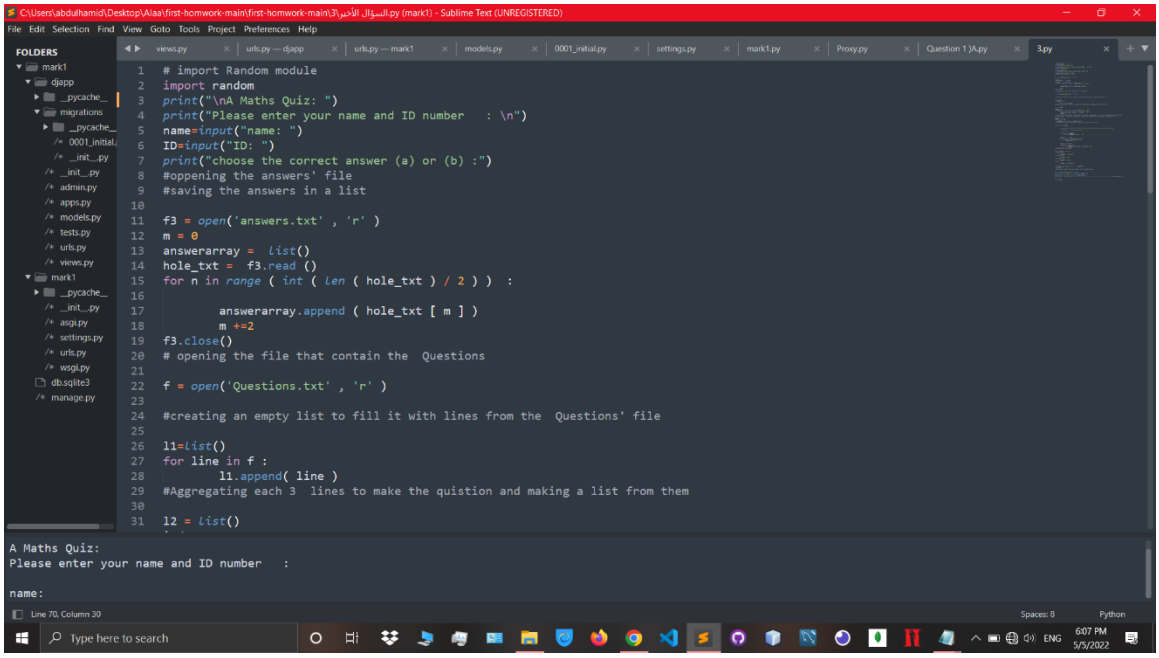

17:16
57%
new*
1 def DecimalToBinary(num) :
2 if num >=1 :
3 DecimalToBinary(num//2)
4 print (num%2 ,end = " ")
5 if __name__ =='__main__' :
6 x =int (input("Enter a number :"))
7 DecimalToBinary(x)
Tab
:
;
"
'
#

Q3:

type python quiz program that takes a text or json or csv file as input for(Questions,Answers),it asks the questions and finally computes and prints user results and store user name and result in separate file

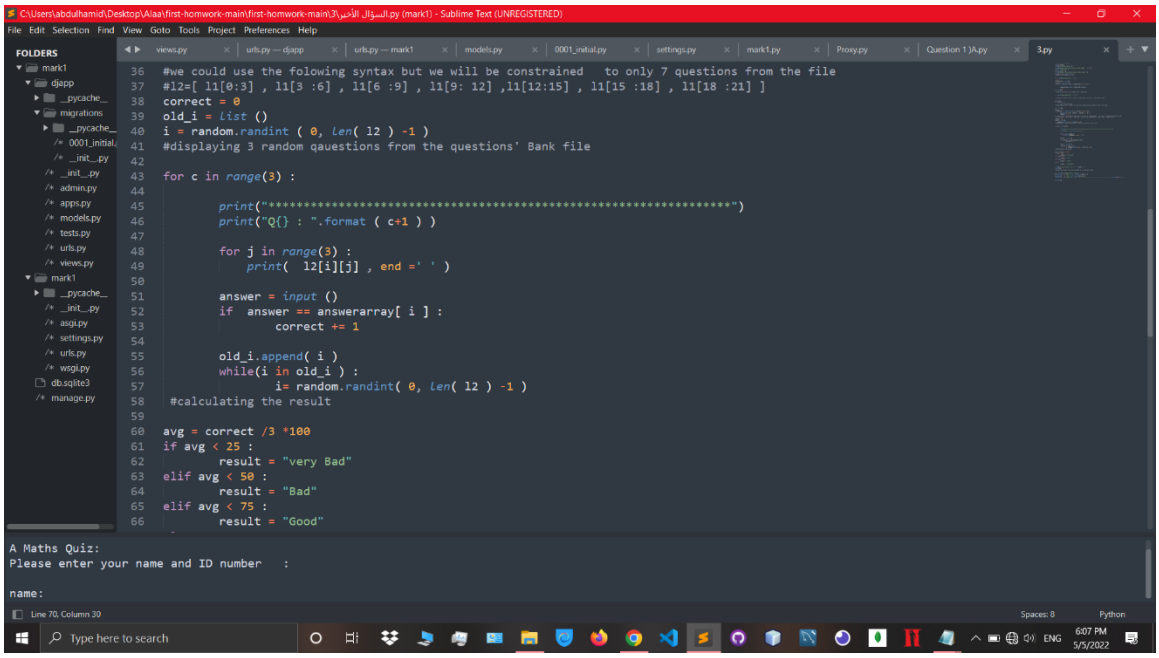
Answer:





```
# import Random module
import random
print("\nA Maths Quiz: ")
print("Please enter your name and ID number   : \n")
name=input("name: ")
ID=input("ID: ")
print("choose the correct answer (a) or (b) :")
#oppening the answers' file
#saving the answers in a list

f3 = open('answers.txt' , 'r' )
m = 0
answerarray =  list()
hole_txt =  f3.read ()
for n in range ( int ( len ( hole_txt ) / 2 ) )  :

        answerarray.append ( hole_txt [ m ] )
        m +=2
f3.close()
# opening the file that contain the  Questions

f = open('Questions.txt' , 'r' )

#creating an empty list to fill it with lines from the  Questions' file

l1=list()
for line in f :
        l1.append( line )
#Aggregating each 3  lines to make the quistion and making a list from them

l2 = list()
```

```
A Maths Quiz:
Please enter your name and ID number   :

name:
```



```
#we could use the folowing syntax but we will be constrained   to only 7 questions from the file
#l2=[ l1[0:3] , l1[3 :6] , l1[6 :9] , l1[9: 12] ,l1[12:15] , l1[15 :18] , l1[18 :21] ]
correct = 0
old_i = list ()
i = random.randint ( 0, len( l2 ) -1 )
#displaying 3 random qauestions from the questions' Bank file

for c in range(3) :

        print("************************************************************")
        print("Q{} : ".format ( c+1 ) )

        for j in range(3) :
            print(  l2[i][j] , end =' ' )

        answer = input ()
        if  answer == answerarray[ i ] :
                correct += 1

        old_i.append( i )
        while(i in old_i ) :
                i= random.randint( 0, len( l2 ) -1 )
 #calculating the result

avg = correct /3 *100
if avg < 25 :
        result = "very Bad"
elif avg < 50 :
        result = "Bad"
elif avg < 75 :
        result = "Good"
```

```
A Maths Quiz:
Please enter your name and ID number   :

name:
```