COMPUTER PROJECT

NAME: AYUSHI ROY

CLASS: XII

ROLL: 11

SECTION: I

TOPIC:

QUIZ

<u>CERTIFICATE</u>

This is to certify that Ms. Ayushi Roy, a bonafide student of class XII I has successfully completed the project titled **SIGMA** in the Computer Lab during the Year 2020-2021 for the A.I.S.S.C.E Computer Science Examination– 2021.

It is further certified that this project is the individual work of the Candidate.

External Examiner   Internal Examiner

DATED:

SEAL:

ACKNOWLEDGEMENT

I gratefully acknowledge my sincere thanks to our Computer Science Teacher Mrs. Dhrita Adhya for her remarkable, valuable guidance and supervision throughout the project work. I am also utmost indebted to all my batch mates for their encouragement, help, suggestion and readily helpful service in the successful completion of the project.

I wish to express my deep gratitude and sincere thanks to the Principal Mrs. Joyoti Chaudhuri, Delhi Public School, Ruby Park for her encouragement and for all the facilities that she provided for this project work.

Ayushi Roy

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HARDWARE AND
SOFTWARE REQUIRMENTS

HARDWARE REQUIREMENTS:

PROCESSOR: Intel® Core™ i5 8250U CPU @ 1.60 GHz 1.80 GHz

MEMORY: 8.00GB

HARD DISK: 28.0 KB

SOFTWARE REQUIREMENTS:

OPERATING SYSTEM: 64-bit operating system

PROGRAMMING IDE: Spyder(anaconda3)

OBJECTIVES OF THE PROJECT

- Various inputs like **NAME, CLASS, EMAIL, ROLL NO.,** are taken input from the user.

- A **THREE** round quiz begins, containing **TWO MCQ** rounds and **ONE INTEGER** type round.

- An **'ID'** is created for every user using their email.

- **SCORE** for each round is displayed at the end and the **TOTAL SCORE** along with their personal information input is displayed at the end.

- A **BACKGROUND IMAGE** has been included at the beginning.

USER DEFINED MODULES
AND
FUNCTIONS USED
AND THEIR PURPOSE

FUNCTIONS:

- **ro1shuff:** To shuffle round 1 Questions
- **ro2shuff:** To shuffle round 2 Questions
- **ro1showresult :** To show round 1 result
- **ro2showresult :** To show round 2 result
- **ro3sowresult :** To show round 3 result
- **ro1calc :** To show round 1 calculations
- **ro2calc :** To show round 2 calculations
- **ro1selectedcoices :** To show round 1 opts
- **ro2selectedchoices :** To show round 2 opts
- **queview1 :** To show round 1 questions
- **queview2 :** To show round 2 questions
- **queview3_5 :** To show round 3 Q 5
- **queview3_4 :** To show round 3 Q 4
- **queview3_3 :** To show round 3 Q 3

- **queview3_2 :** To show round 3 Q 2
- **queview3_1 :** To show round 3 Q 1
- **quizstarted :** Command to start quiz
- **round1 :** Creating window for round 1
- **round2 :** Creating window for round 2
- **round3 :** Creating window for round 3
- **round1started :** Command for round 1
- **round2started :** Command for round 2
- **round3started :** Command for round 3
- **ok :** Command for ok button
- **personalinfo :** To take input from user
- **startispressed :** Command for start button
- **instructions :** To print personal info
- **nextispressed :** Command for next button

MODULES :

- **tkinter :** For creating **GUI .**
- **PIL:** For processing image(background image) in Python.
- **Random:** For shuffling of questions in Round 1 and 2

SOURCE CODE

```python
from tkinter import *
import tkinter.messagebox
from tkinter import ttk
from PIL import Image
import random

#ro1_que= round 1 questions
#ro2_que= round 2 questions
#ro3_que= round 3 questions
#ro1_ans_ch= round 1 answers choice
#ro2_ans_ch= round 2 answers choice
#ro3_ans= round 3 answers
#ro1_ans= round 1 answers
#ro2_ans= round 2 answers
#ro1shuff= shuffle ro1 questions
ro1_que= [
```

"Who is the author of the book '1984'?",

"Which of the following keyword is used to create a function in Python ?",

"To Declare a Global variable in python we use the keyword ?",

"The lead character in the film 'The Bandit Queen' has been played by",

"The famous book 'Anandmath' was authored by",

]

ro2_que= ['''It was a hot day and 4 couples drank together 44 bottles of cold drink.

Anita had 2, Biva 3, Chanchala 4 and Dipti 5 bottles.

Mr. Panikkar drank just as many bottles as his wife, but each of the

other men drank more than his wife- Mr. Dubey twice, Mr. Narayan

three times and Mr. Rao four times as many bottles. Then, one of the

following sttatements is correct. Which one is it?''',

'''A bag contains coloured balls of which atleast 90% are red. Balls

are drawn from the bag one by one and their colours are noted. It is found

that 49 of the first 50 balls drawn are red. Thereafter, 7 out of every

8 balls drawn are red. The number of balls in the bad CAN NOT be'",

"'Let 'a' be the 81-digit number all digits of which are equal to 1. Then

the number 'a' is '",

"'The number 2532645918 is divisible by'",

"'The number of solutions of 2sinx+cosx=3 is'"

]

ro3_que= ["'How many ways are there to put one white and one black rook on a chessboard

so that they do not attack each other?'",

'''The number of different factors of 1800 equals ''',

'''The sum of all the distinct four-digit numbers that can be formed using

the digits 1,2,3,4,5 each digit appearing atmost once is ''',

'''The sum of all integers from 1 to 1000 that are divisible by 2 or 5

but not divisible by 4 equals ''',

"The number of pairs of integers(m,n)satisfying m*2+n*2+m*n=1 is"

]

ro1_ans_ch= [

  ["George Orwell","Thomas Hardy","Emile Zola","Walter Scott"],

  ["function","void","fun","def"],

  ["all","var","let","global"],

  ["Rupa Ganguly","Seema Biswas","Pratibha Sinha","Shabana Azmi"],

["Sarojini Naidu","Bankim Chandra Chattopadhyay","Sri Aurobindo","Rabindranath Tagore"]

]

ro2_ans_ch= [

["Mrs. Panikkar is Chanchala","Anita's husband had 8 bottles","Mr.Narayan had 12 bottles",

"Mrs.Rao is Dipti"],

["170","210","250","194"],

["Divisible by 9 but not divisible by 27",

"Divisible by 27 but not divisible by 81",

"Divisible by 81 but not divisible by 243",

"Divisible by 243"],

["3 but not 11",

"11 but not 3",

"Both 3 and 11",

"Neither 3 nor 11"],

["1","2","infinite","no solution"]

]

ro3_ans_= [

```
    "3136",

    "36",

    "399960",

    "175000",

    "6"

    ]


ro1_ans= [0,3,3,1,1]
ro2_ans= [1,2,2,2,3]


user_ans1=[]
user_ans2=[]
user_ans3=[]
indexes1=[]
indexes2=[]
indexes3=[]


def ro1shuff():
    global indexes1
    while (len(indexes1)<5):
        x1=random.randint(0,4)
```

```python
        if x1 in indexes1:
            continue
        else:
            indexes1.append(x1)


def ro2shuff():
    global indexes2
    while (len(indexes2)<5):
        x2=random.randint(0,4)   #Shuffling of ro2 que is being done.
        if x2 in indexes2:
            continue
        else:
            indexes2.append(x2)




#ro1showresult= result of round 1
#ro2showresult= result of round 2
#ro3showresult = result of round 3
```

```python
def ro1showresult(score1):
    global r2,b6
    #For Round 1
    ro1_lblq.destroy()
    ro1_opt1.destroy()
    ro1_opt2.destroy()
    ro1_opt3.destroy()
    ro1_opt4.destroy()

    ro1_resultlbl= Label(
        r2,
        text=("<<Your score for Round 1 is>>"
            ,score1),
        font = ("Arial",20),
        width = 500,
        justify = "center",
        wraplength = 400,
        background = "blanchedalmond",
    )
    ro1_resultlbl.pack(pady=(200,200))
```

```python
    b6=Button(r2,text="NEXT",font=("Times New
Roman",26),bg="steelblue",
        command=roundtwo)
    b6.place(x=290,y=380)


def ro2showresult(score2):
    global r3,b7
    #For Round 2
    ro2_lblq.destroy()
    ro2_opt1.destroy()
    ro2_opt2.destroy()
    ro2_opt3.destroy()
    ro2_opt4.destroy()

    ro2_resultlbl= Label(
        r3,
        text=("<<Your score for Round 2 is>>"
            ,score2),
        font = ("Arial",20),
        width = 500,
        justify = "center",
```

```python
        wraplength = 400,

        background = "blanchedalmond",

    )

    ro2_resultlbl.pack(pady=(250,250))



    b7=Button(r3,text="NEXT",font=("Times New
Roman",26),bg="steelblue",

        command=roundthree)

    b7.place(x=330,y=380)




def ro3showresult():
    #FOR ROUND 3

    global r4,r5,b9,b24,ro3_lblq5

    global E5,L

    global score3

    r4.destroy()

    r5=Tk()

    r5.title("WELCOME TO SIGMA")

    r5.geometry('800x700')

    r5.config(bg="blanchedalmond")
```

```python
    r5.resizable(0,0)


    ro3_resultlbl= Label(
        r5,
        text=("<<Your score for Round 3 is>>"
            ,score3),
        font = ("Arial",20),
        width = 500,
        justify = "center",
        wraplength = 400,
        background = "blanchedalmond",
    )
    ro3_resultlbl.pack(pady=(200,200))


    b9=Button(r5,text="NEXT",font=("Times New
Roman",26),bg="steelblue",
            command=final)
    b9.place(x=320,y=380)

def final():        #FINAL WINDOW
    global r5
```

```python
    global cl,nm,em

    global score1,score2,score3

    r5.destroy()

    r8=Tk()  # CREATING FINAL WINDOW

    r8.title("RESULT")

    r8.geometry('800x700')

    r8.config(bg="blanchedalmond")

    r8.resizable(0,0)



    l21=Label(r8,text=("NAME : ",nm))
#nm=name

    l21.config(bg="blanchedalmond",font=("Tew Cen
MT",22))

    l21.pack(pady=50)

    l22=Label(r8,text=("CLASS : ",cl))
#cl=class

    l22.config(bg="blanchedalmond",font=("Tew Cen
MT",22))

    l22.pack(pady=50)

    l23=Label(r8,text=("ROLL NO. : ",rn))
#rn=roll number
```

```python
    l23.config(bg="blanchedalmond",font=("Tew Cen
MT",22))

    l23.pack(pady=50)

    l24=Label(r8,text=("EMAIL ID : ",em))
#em=email id

    l24.config(bg="blanchedalmond",font=("Tew Cen
MT",22))

    l24.pack(pady=50)


    final_score=score1+score2+score3

    l50=Label(r8,text=("Your Final score",str(final_score)))

    l50.config(bg="blanchedalmond",font=("Tew Cen
MT",22))

    l50.pack(pady=50)



def ro1calc():

    #For round 1

    global indexes1,user_ans1,ro1_ans

    global score1

    x4 = 0

    score1 = 0
```

```python
    for i in indexes1:
        if user_ans1[x4] == ro1_ans[i]:
            score1 = score1 + 1
        x4 += 1
    ro1showresult(score1)


def ro2calc():
    #For round 2
    global indexes2,user_ans2,ro2_ans
    global score2
    x5 = 0
    score2= 0
    for i in indexes2:
        if user_ans2[x5] == ro2_ans[i]:
            score2 = score2 + 1
        x5 += 1
    ro2showresult(score2)



ro1ques =1
ro2ques=1
```

```python
ro3ques=1
def ro1selectedchoices():
    #For round 1
    global radiovar1,user_ans1
    global ro1_lblq
    global ro1_opt1,ro1_opt2,ro1_opt3,ro1_opt4
    global ro1ques
    getvalue1 = radiovar1.get()
    user_ans1.append(getvalue1)
    radiovar1.set(-1)
    if ro1ques < 5:
        ro1_lblq.config(text= ro1_que[indexes1[ro1ques]])
        ro1_opt1['text'] = ro1_ans_ch[indexes1[ro1ques]][0]
        ro1_opt2['text'] = ro1_ans_ch[indexes1[ro1ques]][1]
        ro1_opt3['text'] = ro1_ans_ch[indexes1[ro1ques]][2]
        ro1_opt4['text'] = ro1_ans_ch[indexes1[ro1ques]][3]

        ro1ques += 1
    else:
        ro1calc()
```

```python
def ro2selectedchoices():
    #For round 2
    global radiovar2,user_ans2
    global ro2_lblq
    global ro2_opt1,ro2_opt2,ro2_opt3,ro2_opt4
    global ro2ques
    getvalue2 = radiovar2.get()
    user_ans2.append(getvalue2)
    radiovar2.set(-1)
    if ro2ques < 5:
        ro2_lblq.config(text= ro2_que[indexes2[ro2ques]])
        ro2_opt1['text'] = ro2_ans_ch[indexes2[ro2ques]][0]
        ro2_opt2['text'] = ro2_ans_ch[indexes2[ro2ques]][1]
        ro2_opt3['text'] = ro2_ans_ch[indexes2[ro2ques]][2]
        ro2_opt4['text'] = ro2_ans_ch[indexes2[ro2ques]][3]

        ro2ques += 1
    else:
        ro2calc()
```

```python
def queview1():
    #For Round 1
    global ro1_lblq,ro1_opt1,ro1_opt2,ro1_opt3,ro1_opt4
    global r2
    ro1_lblq=Label(
        r2,
        text = ro1_que[indexes1[0]],
        font = ("Arial", 16),
        width = 500,
        justify = "center",
        wraplength = 400,
        background = "blanchedalmond",
    )
    ro1_lblq.pack(pady=(100,30))

    global radiovar1
    radiovar1 = IntVar()
    radiovar1.set(-1)

    ro1_opt1 = Radiobutton(
        r2,
```

```python
    text = ro1_ans_ch[indexes1[0]][0],

    font = ("Times", 12),

    value = 0,

    variable = radiovar1,

    command = ro1selectedchoices,

    background = "blanchedalmond",

)
ro1_opt1.pack(pady=5)




ro1_opt2 = Radiobutton(

    r2,

    text = ro1_ans_ch[indexes1[0]][1],

    font = ("Times", 12),

    value = 1,

    variable = radiovar1,

    command = ro1selectedchoices,

    background = "blanchedalmond",

)
ro1_opt2.pack(pady=5)
```

```python
ro1_opt3 = Radiobutton(
    r2,
    text = ro1_ans_ch[indexes1[0]][2],
    font = ("Times", 12),
    value = 2,
    variable = radiovar1,
    command = ro1selectedchoices,
    background = "blanchedalmond",
)
ro1_opt3.pack(pady=5)


ro1_opt4 = Radiobutton(
    r2,
    text = ro1_ans_ch[indexes1[0]][3],
    font = ("Times", 12),
    value = 3,
    variable = radiovar1,
    command = ro1selectedchoices,
    background = "blanchedalmond",
```

```python
    )
    ro1_opt4.pack(pady=5)


def queview2():
    #For Round 2
    global ro2_lblq,ro2_opt1,ro2_opt2,ro2_opt3,ro2_opt4
    global r3
    ro2_lblq=Label(
        r3,
        text = ro2_que[indexes2[0]],
        font = ("Arial", 16),
        width = 500,
        justify = "center",
        wraplength = 800,
        background = "blanchedalmond",
    )
    ro2_lblq.pack(pady=(100,30))

    global radiovar2
    radiovar2 = IntVar()
    radiovar2.set(-1)
```

```python
ro2_opt1 = Radiobutton(
    r3,
    text = ro2_ans_ch[indexes2[0]][0],
    font = ("Times", 12),
    value = 0,
    variable = radiovar2,
    command = ro2selectedchoices,
    background = "blanchedalmond",
)
ro2_opt1.pack(pady=5)


ro2_opt2 = Radiobutton(
    r3,
    text = ro2_ans_ch[indexes2[0]][1],
    font = ("Times", 12),
    value = 1,
    variable = radiovar2,
    command = ro2selectedchoices,
    background = "blanchedalmond",
```

```python
)
ro2_opt2.pack(pady=5)


ro2_opt3 = Radiobutton(
    r3,
    text = ro2_ans_ch[indexes2[0]][2],
    font = ("Times", 12),
    value = 2,
    variable = radiovar2,
    command = ro2selectedchoices,
    background = "blanchedalmond",
)
ro2_opt3.pack(pady=5)


ro2_opt4 = Radiobutton(
    r3,
    text = ro2_ans_ch[indexes2[0]][3],
    font = ("Times", 12),
    value = 3,
```

```python
        variable = radiovar2,
        command = ro2selectedchoices,
        background = "blanchedalmond",
    )
    ro2_opt4.pack(pady=5)


def quiview3_5():
    #for round 3 q 5
    global ro3_ans,E4,E5,ro3_lblq4,ro3_lblq5,b24,b23,L
    global score3
    ro3_lblq4.destroy()
    E4.destroy()
    b23.destroy()
    ro3_lblq5=Label(
        r4,
        text=ro3_que[4],
        font=("Arial",16),
        width=500,
        justify="center",
        wraplength=400,
```

```python
        bg="blanchedalmond"
        )
    ro3_lblq5.pack(pady=(100,30))


    E5=Entry(r4,width=40)
    E5.place(x=320,y=400)


    if E5.get()=="6":
        score3=score3+2
    else:
        score3=score3


    b24=Button(r4,text="NEXT",font=("Verdana",24),bg="steelblue",
            command=ro3showresult)
    b24.place(x=550,y=550)


def quiview3_4():
    #for round 3 q 4
```

```python
global ro3_ans,E3,E4,ro3_lblq4,ro3_lblq3,L,b23,b22
global score3
ro3_lblq3.destroy()
E3.destroy()
b22.destroy()
ro3_lblq4=Label(
    r4,
    text=ro3_que[3],
    font=("Arial",16),
    width=500,
    justify="center",
    wraplength=400,
    bg="blanchedalmond"
    )
ro3_lblq4.pack(pady=(100,30))


E4=Entry(r4,width=40)
E4.place(x=320,y=400)


if E4.get()=="175000":
```

```python
        score3=score3+2
    else:
        score3=score3



b23=Button(r4,text="NEXT",font=("Verdana",24),bg="stee
lblue",
        command=quiview3_5)
    b23.place(x=550,y=550)


def quiview3_3():
    #for round 3 q 3
    global ro3_ans,E2,E3,b22,b21,ro3_lblq2,ro3_lblq3,L
    global score3
    ro3_lblq2.destroy()
    b21.destroy()
    E2.destroy()
    ro3_lblq3=Label(
        r4,
        text=ro3_que[2],
        font=("Arial",16),
```

```python
        width=500,
        justify="center",
        wraplength=400,
        bg="blanchedalmond"
        )
    ro3_lblq3.pack(pady=(100,30))


    L=Label(r4,text="Your
Answer",bg="blanchedalmond",font=("Snap ITC",22))
    L.place(x=25,y=300)
    E3=Entry(r4,width=40)
    E3.place(x=320,y=400)
    if E3.get()=="399960":
        score3=score3+2
    else:
        score3=score3


b22=Button(r4,text="NEXT",font=("Verdana",24),bg="stee
lblue",
            command=quiview3_4)
```

```python
        b22.place(x=550,y=550)


def quiview3_2():
    #for round 3 q 2
    global ro3_lblq1,ro3_ans,E1,E2,b20,b21,ro3_lblq2,L
    global score3
    b20.destroy()
    ro3_lblq1.destroy()
    E1.destroy()
    ro3_lblq2=Label(
        r4,
        text=ro3_que[1],
        font=("Arial",16),
        width=500,
        justify="center",
        wraplength=400,
        bg="blanchedalmond"
        )
    ro3_lblq2.pack(pady=(100,30))
```

```python
    L=Label(r4,text="Your
Answer",bg="blanchedalmond",font=("Snap ITC",22))
    L.place(x=25,y=300)
    E2=Entry(r4,width=40)
    E2.place(x=320,y=400)

    if E2.get()=="36":
        score3=score3+2
    else:
        score3=score3

b21=Button(r4,text="NEXT",font=("Verdana",24),bg="stee
lblue",
         command=quiview3_3)
    b21.place(x=550,y=550)

def queview3_1():
    #For round 3 question 1
    global ro3_lblq1,ro3_ans,E1,b20,L
    global score3
```

```python
score3=0
ro3_lblq1=Label(
    r4,
    text=ro3_que[0],
    font=("Arial",16),
    width=500,
    justify="center",
    wraplength=400,
    bg="blanchedalmond"
    )
ro3_lblq1.pack(pady=(100,30))


L=Label(r4,text="Your
Answer",bg="blanchedalmond",font=("Snap
ITC",22)).place(x=25,y=300)
E1=Entry(r4,width=40)
E1.place(x=320,y=400)
if E1.get()=="3136":
    score3=score3+2
else:
    score3=score3
```

```python
b20=Button(r4,text="NEXT",font=("Verdana",24),bg="stee
lblue",
          command=quiview3_2)
    b20.place(x=550,y=550)


def quizstarted():
    global r1
    global r2
    r1.destroy()
    r2=Tk()  #3rd WINDOW
    r2.title("WELCOME TO SIGMA")
    r2.geometry('700x500')
    r2.config(bg="blanchedalmond")
    r2.resizable(0,0)

    global l15
    global b4
    l15=Label(r2,text="LET'S START")
    l15.config(bg="blanchedalmond",font=("Times New
Roman",26))
```

```python
    l15.pack(pady=200)
    b4=Button(r2,text="Round 1>>",font=("Times New
Roman",26),bg="steelblue",
        command=round1started)
    b4.place(x=240,y=380)

def roundtwo():
    global r2,b6,r3
    r2.destroy()
    r3=Tk() #4th Window
    r3.title("WELCOME TO SIGMA")
    r3.geometry('800x700')
    r3.config(bg="blanchedalmond")
    r3.resizable(0,0)

    global l16
    global b5
    l16=Label(r3,text="LET'S START")
    l16.config(bg="blanchedalmond",font=("Times New
Roman",26))
    l16.pack(pady=200)
```

```python
    b5=Button(r3,text="Round 2>>",font=("Times New
Roman",26),bg="steelblue",
            command=round2started)
    b5.place(x=300,y=380)


def roundthree():
    global r3,b7,r4
    r3.destroy()
    r4=Tk() #4th Window
    r4.title("WELCOME TO SIGMA")
    r4.geometry('800x700')
    r4.config(bg="blanchedalmond")
    r4.resizable(0,0)

    global l17
    global b8
    l17=Label(r4,text="LET'S START")
    l17.config(bg="blanchedalmond",font=("Times New
Roman",26))
    l17.pack(pady=200)
```

```python
    b8=Button(r4,text="Round 3>>",font=("Times New
Roman",26),bg="steelblue",
        command=round3started)
    b8.place(x=300,y=380)

def round1started():
    global l15
    global b4
    global r2
    global r3
    l15.destroy()
    b4.destroy()
    ro1shuff()
    queview1()

def round2started():
    global l16
    global b5
    l16.destroy()
    b5.destroy()
```

```python
    ro2shuff()

    queview2()



def round3started():

    global l17

    global b8

    l17.destroy()

    b8.destroy()

    #ro3shuff()

    queview3_1()



def ok():

    global r2

    global r7

    r1.destroy()

    r7.destroy()

    r2=Tk()  #3rd WINDOW

    r2.title("WELCOME TO SIGMA")

    r2.geometry('700x500')

    r2.config(bg="blanchedalmond")
```

```python
    r2.resizable(0,0)

    global l15
    global b4
    l15=Label(r2,text="LET'S START")
    l15.config(bg="blanchedalmond",font=("Times New
Roman",26))
    l15.pack(pady=200)
    b4=Button(r2,text="Round 1>>",font=("Times New
Roman",26),bg="steelblue",
        command=round1started)
    b4.place(x=240,y=380)


def quizstarted():
    global r1
    global e1,e2,e3,e4,e5,e6
    global nm,cl,rn,em
    global r7
    nm=e1.get()
    cl=e2.get()
```

```python
    rn=e3.get()+e4.get()

    em=e5.get()+e6.get()


    if len(e1.get())==0 or len(e5.get())==0:

        messagebox.showwarning("Error","REQUIRED
FIELDS")



    else:

        em1=e5.get()

        r7=Tk()

        r7.title("LOGIN ID")

        r7.geometry('300x200')

        r7.config(bg="blanchedalmond")

        r7.resizable(0,0)

        l20=Label(r7,text=("YOUR ID IS :
",em1),font=("Arial Rounded
MT",10),bg="blanchedalmond")

        l20.pack(pady=20)


        b10=Button(r7,text="OK",font=("Times New
Roman",20),bg="black",fg="white",
```

```
            command=ok)
      b10.place(x=230,y=130)




def personalinfo():
    global r1
    r1=Tk()  #2nd WINDOW (PERSONAL
INFORMATION)
    r1.title("WELCOME TO SIGMA")
    r1.geometry('700x500')
    r1.config(bg="blanchedalmond")
    r1.resizable(0,0)


    l14=Label(text="PLEASE FILL UP THE DETAILS",)
    l14.config(bg="blanchedalmond",font=("Times New
Roman",26))
    l14.pack(pady=30)



    #name
```

```python
global e1
global nm
Label(r1,text="ENTER NAME **",bg="blanchedalmond",font=("Snap ITC",22)).place(x=25,y=130)


e1=Entry(r1,width=40,)
e1.place(x=400,y=140)




#class
global e2
Label(r1,text="ENTER CLASS",bg="blanchedalmond",font=("Snap ITC",22)).place(x=25,y=200)
e2=ttk.Combobox(r1)
e2['values']=('IX','X','XI','XII')
e2.current()
e2.place(x=400,y=210)
```

```python
    #roll no.

    global e3

    global e4

    Label(r1,text="ENTER ROLL
NO.",bg="blanchedalmond",font=("Snap
ITC",22)).place(x=25,y=270)

    e3=ttk.Combobox(r1)

    e3['values']=('0','1','2','3','4','5','6','7','8','9')

    e3.place(x=400,y=280)


    e4=ttk.Combobox(r1)

    e4['values']=('0','1','2','3','4','5','6','7','8','9')

    e4.place(x=550,y=280)


    #EMAIL ID

    global e5,e6

    Label(r1,text="ENTER EMAIL ID
**",bg="blanchedalmond",font=("Snap
ITC",22)).place(x=25,y=340)

    e5=Entry(r1,width=20)

    e5.place(x=400,y=350)
```

```python
    e6=ttk.Combobox(r1)

e6['values']=('@gmail.com','@yahoo.com','@icloud.com')
    e6.current(0)
    e6.place(x=550,y=350)




    b3=Button(r1,text="START THE
QUIZ",font=("Microsoft Sans Serif",18),bg="steelblue",
        command=quizstarted)
    b3.place(x=230,y=420)




def startispressed():
    r.destroy()
    personalinfo()


def instructions():
    l2=Label(r,text="READ THE INSTRUCTIONS
CAREFULLY : ")
    l2.config(font=("Modern No. 20",20),bg="beige")
```

```
l2.pack(pady=40)


l3=Label(r,text="1. There are three rounds
")
l3.config(font=("Lucida Sans",18),bg="beige")
l3.pack(pady=2)


l4=Label(r,text="2. 1st Round : General Knowledge And
Current Affairs")
l4.config(font=("Lucida Sans",18),bg="beige")
l4.pack()


l5=Label(r,text="            2nd Round :
Mathematics(MCQ)                        ")
l5.config(font=("Lucida Sans",18),bg="beige")
l5.pack()


l6=Label(r,text="   3rd Round : Mathematics(INTEGER
TYPE)             ")
l6.config(font=("Lucida Sans",18),bg="beige")
l6.pack()
```

```
l7=Label(r,text=" 3. Each round has five questions.
")
l7.config(font=("Lucida Sans",18),bg="beige")
l7.pack()


l8=Label(r,text="    ROUND 1 & ROUND 2 : Each
question has 4 options.")
l8.config(font=("Lucida Sans",18),bg="beige")
l8.pack()


l9=Label(r,text="                              Out of which
ONE is correct.")
l9.config(font=("Lucida Sans",18),bg="beige")
l9.pack()


l10=Label(r,text="                         Each question is
of 1 mark.")
l10.config(font=("Lucida Sans",18),bg="beige")
l10.pack()
```

```python
    l11=Label(r,text="   ROUND 3 : Consists of INTEGER
TYPE QUESTIONS.   ")
    l11.config(font=("Lucida Sans",18),bg="beige")
    l11.pack()


    l12=Label(r,text="Each question is of 2 mark.")
    l12.config(font=("Lucida Sans",18),bg="beige")
    l12.pack()


    l13=Label(r,text="CLICK ON START BUTTON TO
START THE QUIZ")
    l13.config(font=("Algerian",20),bg="black",fg="white")
    l13.pack(pady=20)


    b2=Button(r,text="START",
          command = startispressed)
    b2.config(font=("Microsoft Sans
Serif",24),bg="steelblue")
    b2.pack(pady=20)


def nextispressed():
```

```python
        img1.destroy()

        img2.destroy()

        l1.destroy()

        b1.destroy()

        instructions()


r=Tk()  #MAIN WINDOW FOR GUI

r.title("WELCOME TO SIGMA")

r.geometry('800x700')

r.config(bg="beige")

r.resizable(0,0)


a1=
PhotoImage(file='C:\\Users\\ASUS\\Documents\\sigma\\new1.png')

img1= Label(r,image = a1)

img1.place(x =0,y = 0)

a2=PhotoImage(file='C:\\Users\\ASUS\\Documents\\sigma\\woodenbg5.png')

img2=Label(r,image=a2)
```

```python
img2.place(x=0,y=220)


l1=Label(r,text="TO READ INSTRUCTIONS, CLICK
NEXT")

l1.config(font=("Comic Sans MS",24),bg="antiquewhite")

l1.place(x=95,y=350)


b1=Button(r,text="NEXT",

        command = nextispressed, )

b1.config(font=("Microsoft Sans Serif",28),bg="sienna")

b1.place(x=340,y=550)

r.mainloop()
```
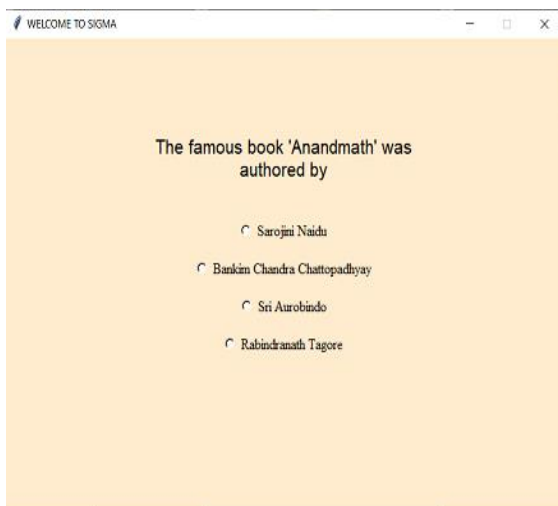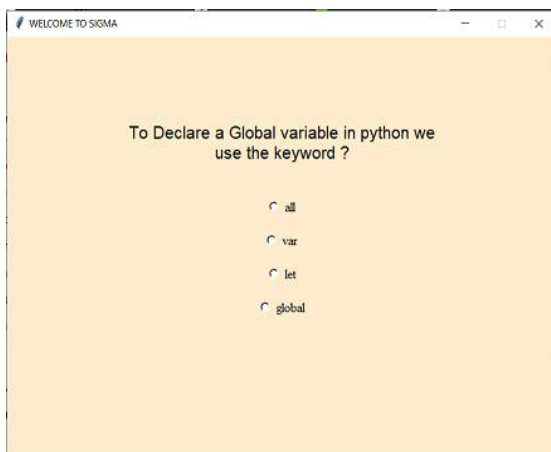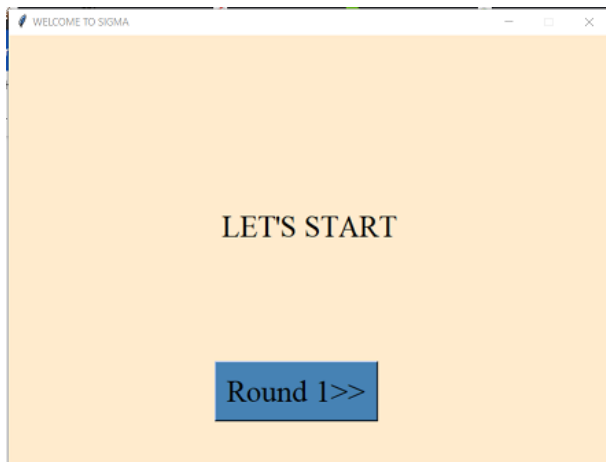
- ** are REQUIRED FIELDS
- If those fields are left empty, then the following warning box will come.
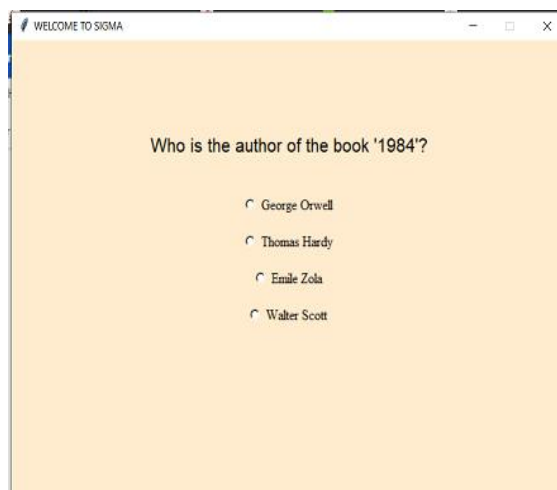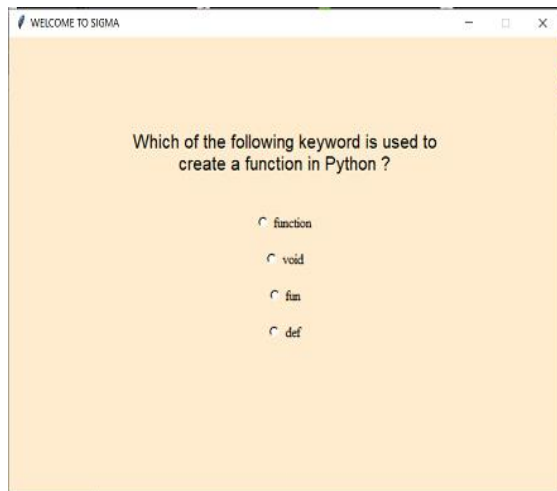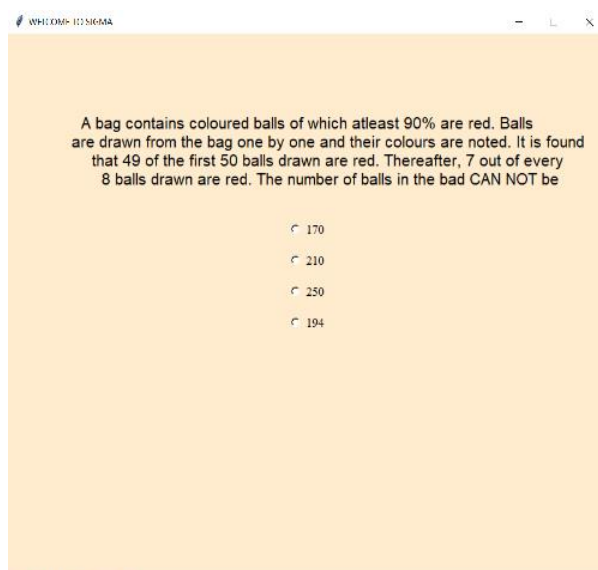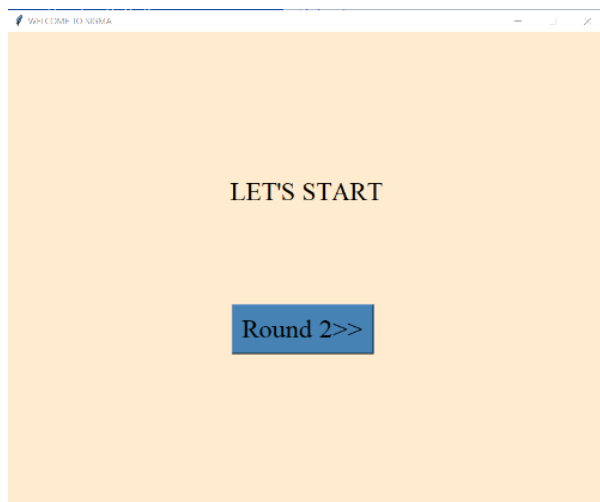- If the warning box comes, OK must be clicked to continue.
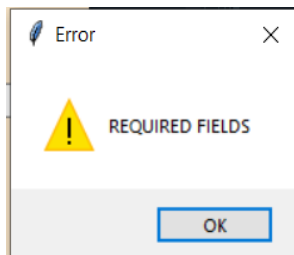
After the details are entered and the "START THE QUIZ" button is pressed, the user will get an ID.

LET'S START

Round 1>>

To Declare a Global variable in python we use the keyword ?

- ○ all
- ○ var
- ○ let
- ○ global

The famous book 'Anandmath' was authored by

- ○ Sarojini Naidu
- ○ Bankim Chandra Chattopadhyay
- ○ Sri Aurobindo
- ○ Rabindranath Tagore

Which of the following keyword is used to
create a function in Python ?

○ function

○ void

○ fun

○ def

Who is the author of the book '1984'?

○ George Orwell

○ Thomas Hardy

○ Emile Zola

○ Walter Scott

The lead character in the film 'The Bandit
Queen' has been played by

○ Rupa Ganguly

○ Seema Biswas

○ Pratibha Sinha

○ Shabana Azmi

{<<Your score for Round 1 is>>}
2

NEXT

LET'S START

Round 2>>

A bag contains coloured balls of which atleast 90% are red. Balls
are drawn from the bag one by one and their colours are noted. It is found
that 49 of the first 50 balls drawn are red. Thereafter, 7 out of every
8 balls drawn are red. The number of balls in the bad CAN NOT be

- ○ 170
- ○ 210
- ○ 250
- ○ 194

The number of solutions of 2sinx+cosx=3 is

- ○ 1
- ○ 2
- ○ infinite
- ○ no solution
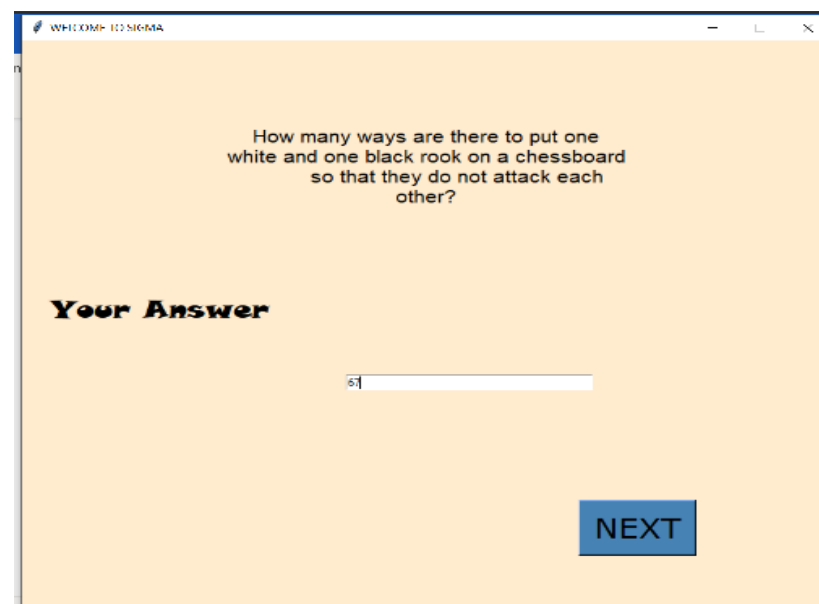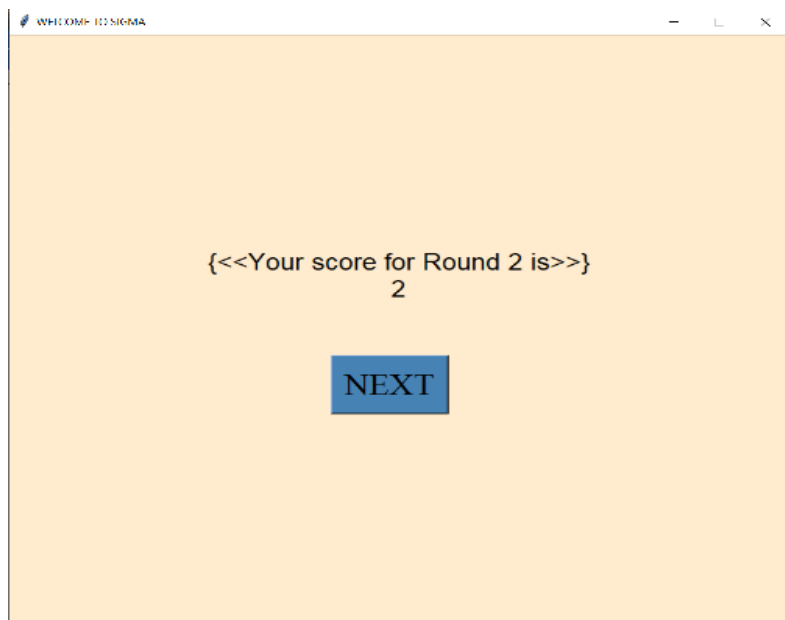
The number 2532645918 is divisible by

- ○ 3 but not 11
- ○ 11 but not 3
- ○ Both 3 and 11
- ○ Neither 3 nor 11

It was a hot day and 4 couples drank together 44 bottles of cold drink.
Anita had 2, Biva 3, Chanchala 4 and Dipti 5 bottles.
Mr. Panikkar drank just as many bottles as his wife, but each of the
other men drank more than his wife- Mr. Dubey twice, Mr. Narayan
three times and Mr. Rao four times as many bottles. Then, one of the
following sttatements is correct. Which one is it?

- Mrs. Panikkar is Chanchala
- Anita's husband had 8 bottles
- Mr.Narayan had 12 bottles
- Mrs.Rao is Dipti

Let 'a' be the 81-digit number all digits of which are equal to 1. Then
the number 'a' is

- Divisible by 9 but not divisible by 27
- Divisible by 27 but not divisible by 81
- Divisible by 81 but not divisible by 243
- Divisible by 243

{<<Your score for Round 2 is>>}
2

NEXT

LET'S START

Round 3>>

How many ways are there to put one
white and one black rook on a chessboard
so that they do not attack each
other?

Your Answer

61

NEXT

The number of different factors of 1800 equals

Your Answer

56

NEXT

The sum of all the distinct four-digit numbers that can be formed using the digits 1,2,3,4,5 each digit appearing atmost once is

Your Answer

78

NEXT

The sum of all integers from 1 to 1000 that
are divisible by 2 or 5
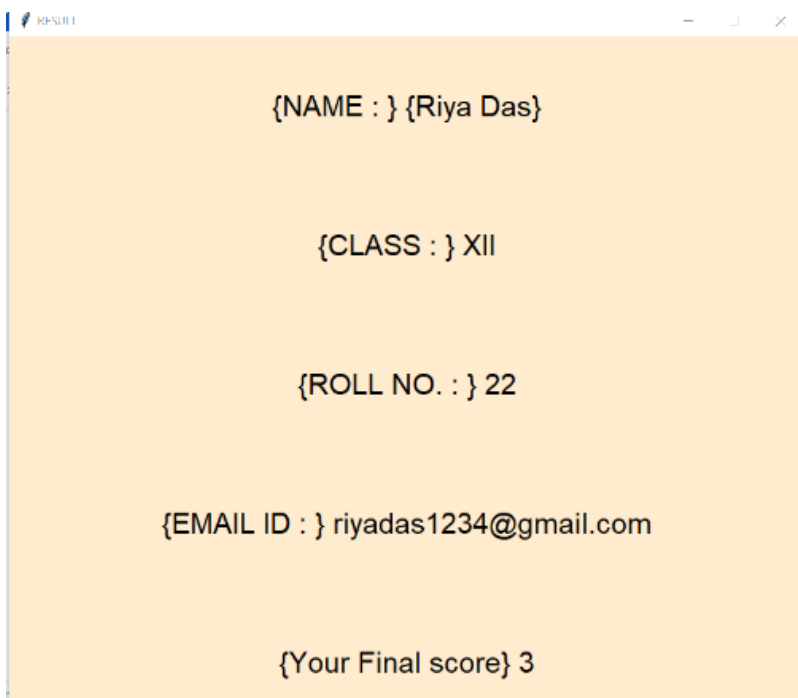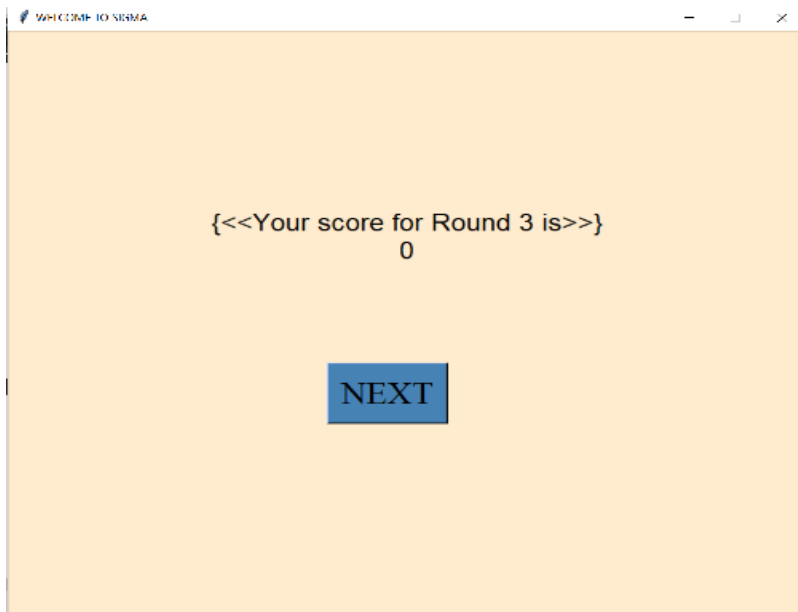but not divisible by 4 equals

Your Answer

90

NEXT

The number of pairs of
integers(m,n)satisfying m*2+n*2+m*n=1 is

Your Answer

6

NEXT

{<<Your score for Round 3 is>>}
0

NEXT

{NAME : } {Riya Das}

{CLASS : } XII

{ROLL NO. : } 22

{EMAIL ID : } riyadas1234@gmail.com

{Your Final score} 3

LIMITATIONS

➢ The background image for the first page should be saved for the successful running of the code.

➢ The records of the users are not stored as Database Management System has not been used.

➢ Slow compilation due to complex coding.

BIBLIOGRAPHY

BOOKS REFERRED :

➢ Computer Science for class XII by Sumita Arora

SITES VISITED :

➢ Stackoverflow.com
➢ Geeksforgeeks.org