

**Sri Adichunchanagiri Shikshana Trust ®**

# **BGS NATIONAL PUBLIC SCHOOL**

(Affiliated to Central Board of Secondary Education, New Delhi)  
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## **Computer Science Investigatory Project**

**Year: 2022 –2023**

**Topic: Balloon Shooter game**

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**Class:** 12B

**Exam Roll No:** 12B28

# **CERTIFICATE**

This is to certify that **Kasak Agarwal** of class XII of BGS National Public School has successfully completed the Investigatory Project in Computer Science for **ALL INDIA SENIOR SECONDARY CERTIFICATE EXAMINATION (AISSCE)** prescribed by CBSE in the year 2022-2023.

Date:

Principal Sign

External Examiner

Internal Examiner

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# **INTRODUCTION**

The simple plot in this game is that there will be balloons moving all over the screen. The player will have a target like an arrow and with the help of a mouse, the player has to bust those moving balloons. There will be a counter for busted balloons and on busting each moving balloon successfully, the busting score will increase. For the development of the Balloon Shooter game using Python PyGame, we will use various pygame modules to add different functionalities to the game. We have to code for continuous movement of balloons , a shooting functionality, and updating the source every time the balloon is busted. All these functions can be done using various modules like draw, mouse, render, etc.

## **Game Features:**

- It is a single player game.
- It will keep track of total number of balloons busted.

# **PROJECT SELECTION**

We adopted this idea to provide an interactive interface between users and the game. The application program provides a quality experience to the user using data files. Concepts in Python and MySQL were used to develop the application.

The admin creates a database consisting of a table called login. Users can play the game using a simple and efficient interface. All this has been achieved through the efficient extraction from and injection into the database.

# **WORKING ENVIRONMENT**

## **OPTIMUM REQUIREMENTS**

- **Operating System** – Windows 10
- **Processor** – Must be clocked over 1.5 GHz
- **Graphics Driver** – Intel Integrated Graphics
- **RAM** – 4 GB or more.
- **Hard Disk** – 1 TB
- **Python interpreter** – Python IDLE 3.6
- **MySQL**

# **LIBRARIES & MODULES**

<b>Libraries</b>	<b>Purpose</b>
PyGame	We used various PyGame modules to add different functionalities to the game. For the balloon's color and shape, we used draw module for shapes like ellipses, circles, etc.
Random	To add functionality that is based on random events
Math	To use functions like sin
Sys	To interact with the system and to quit game and resume the game



# DATA DICTIONARY

## USER DEFINED FUNCTIONS

Functions	PURPOSE
<b>__init()__</b>	Function to assign the value for speed
<b>move()</b>	Function to move the balloon
<b>show()</b>	Function to display the balloons on the screen
<b>burst()</b>	Function to check if the balloon has busted or not
<b>reset()</b>	Function to reset balloon's position
<b>pointer()</b>	Function to show location of balloon on the screen
<b>lowerPlatform()</b>	Function to display lower box with score
<b>Close()</b>	Function to quit the game
<b>game()</b>	Main Function to start the game
<b>open1()</b>	Function to open the csv file
<b>view()</b>	Function to view csv file
<b>insert()</b>	Function to receive values in email,password spaces
<b>recupdate()</b>	Function to update username,email and password
<b>admin()</b>	Function to create the admin interface
<b>delrec()</b>	Function to delete record where username is given

# SOURCE CODE

```
import pygame
import sys
import random
import os
from math import *
import csv
pygame.init()

width = 700
height = 600
abc = (0, 0, 0)
display = pygame.display.set_mode((width, height))
display.fill(abc)
pygame.display.flip()
pygame.display.set_caption("abc")
clock = pygame.time.Clock()

margin = 100
lowerBound = 100

score = 0

white = (230, 230, 230)
lightBlue = (4, 27, 96)
red = (231, 76, 60)
lightGreen = (25, 111, 61)
darkGray = (40, 55, 71)
darkBlue = (10, 0, 2)
green = (35, 155, 86)
yellow = (244, 208, 63)
blue = (46, 134, 193)
purple = (155, 89, 182)
```

```
orange = (243, 156, 18)
```

```
font = pygame.font.SysFont("Arial", 25)
```

```
class Balloon:
```

```
    def __init__(self, speed):
```

```
        self.a = random.randint(30, 40)
```

```
        self.b = self.a + random.randint(0, 10)
```

```
        self.x = random.randrange(margin, width + self.a + margin)
```

```
        self.y = height + lowerBound
```

```
        self.angle = 90
```

```
        self.speed = -speed
```

```
        self.proPool = [-1, -1, -1, 0, 0, 0, 0, 1, 1, 1]
```

```
        self.length = random.randint(100, 100)
```

```
        self.color = random.choice([red, green, purple, orange, yellow,  
blue])
```

```
    def move(self):
```

```
        direct = random.choice(self.proPool)
```

```
        if direct == -1:
```

```
            self.angle += -10
```

```
        elif direct == 0:
```

```
            self.angle += 0
```

```
        else:
```

```
            self.angle += 10
```

```
        self.y += self.speed*sin(radians(self.angle))
```

```
        self.x += self.speed*cos(radians(self.angle))
```

```
        if (self.x + self.a > width) or (self.x < 0):
```

```
            if self.y > height/5:
```

```
                self.x -= self.speed*cos(radians(self.angle))
```

```
            else:
```

```
                self.reset()
```

```
        if self.y + self.b < 0 or self.y > height + 30:
```

```

        self.reset()

    def show(self):
        pygame.draw.line(display, darkBlue, (self.x + self.a/2, self.y +
        self.b), (self.x + self.a/2, self.y + self.b +
        self.length))
        pygame.draw.ellipse(display, self.color,
                             (self.x, self.y, self.a, self.b))
        pygame.draw.ellipse(display, self.color, (self.x +
        self.a/2 - 5, self.y + self.b - 3, 10, 10))

    def burst(self):
        global score
        pos = pygame.mouse.get_pos()

        if isonBalloon(self.x, self.y, self.a, self.b, pos):
            score += 1
            self.reset()

    def reset(self):
        self.a = random.randint(30, 40)
        self.b = self.a + random.randint(0, 10)
        self.x = random.randrange(margin, width - self.a - margin)
        self.y = height - lowerBound
        self.angle = 90
        self.speed -= 0.002
        self.proPool = [-1, -1, -1, 0, 0, 0, 0, 1, 1, 1]
        self.length = random.randint(50, 100)
        self.color = random.choice([red, green, purple, orange, yellow,
blue])

balloons = []
noBalloon = 10
for i in range(noBalloon):
    obj = Balloon(random.choice([1, 1, 2, 2, 2, 2, 3, 3, 3, 4]))
    balloons.append(obj)

```

```

def readstat(name, mode):
    global score
    f = open('highscore.csv', 'r+', newline='')
    r = csv.reader(f)

    print(name)
    if mode == 'r':
        for i in r:
            if i[0] == name:
                return int(i[1])
        return 0
    elif mode == 'w':
        f2 = open('temp.csv', "w+", newline="")
        w = csv.writer(f2)
        for i in r:
            if i[0] != name:
                w.writerow(i)
        w.writerow([name, score])
        f.close()
        f2.close()
        os.remove("highscore.csv")
        os.rename("temp.csv", "highscore.csv")

    f.close()

def isonBalloon(x, y, a, b, pos):
    if (x < pos[0] < x + a) and (y < pos[1] < y + b):
        return True
    else:
        return False

def highscore():
    return score

```

```

def pointer():
    pos = pygame.mouse.get_pos()
    r = 25
    l = 20
    color = green
    for i in range(noBalloon):
        if isonBalloon(balloons[i].x, balloons[i].y, balloons[i].a,
            balloons[i].b, pos):
            color = white
    pygame.draw.ellipse(display, color, (pos[0] - r/2, pos[1] - r/2, r,
r), 4)
    pygame.draw.line(
        display, color, (pos[0], pos[1] - l/2), (pos[0], pos[1] - l), 4)
    pygame.draw.line(
        display, color, (pos[0] + l/2, pos[1]), (pos[0] + l, pos[1]), 4)
    pygame.draw.line(
        display, color, (pos[0], pos[1] + l/2), (pos[0], pos[1] + l), 4)
    pygame.draw.line(
        display, color, (pos[0] - l/2, pos[1]), (pos[0] - l, pos[1]), 4)

def lowerPlatform():
    pygame.draw.rect(display, darkGray, (0, height -
        lowerBound, width, lowerBound))

def showScore():
    scoreText = font.render("Balloons Bursted : " + str(score), True,
white)
    display.blit(scoreText, (150, height - lowerBound + 50))

def close(name):
    global old_score
    old_score = readstat(name, 'r')
    if score > old_score:

```

```

        readstat(name, 'w')
pygame.quit()
sys.exit()

def game(name):
    global score
    loop = True

    while loop:
        for event in pygame.event.get():
            if event.type == pygame.QUIT:
                close(name)
            if event.type == pygame.KEYDOWN:
                if event.key == pygame.K_q:
                    close()
                if event.key == pygame.K_r:
                    score = 0
                    game()

            if event.type == pygame.MOUSEBUTTONDOWN:
                for i in range(noBalloon):
                    balloons[i].burst()

        display.fill(abc)

        for i in range(noBalloon):
            balloons[i].show()

        pointer()

        for i in range(noBalloon):
            balloons[i].move()
        lowerPlatform()
        showScore()
        pygame.display.update()
        clock.tick(60)

```

```

# tkinter login
import tkinter as tk
import customtkinter as tk
from tkinter.constants import *
from tkinter import ttk
from tkinter import *
from PIL import Image, ImageTk
import os
import csv
from balloon import *
import mysql.connector as sql
import pygame as py

class end():
    user = ''
    end = True

class window():
    def __init__(self):
        with open("highscore.csv", "a+") as w:
            print("Created Highscore")
        self.main = tk.Tk()
        self.l = False
        # self.image = Image.open('tkproj.png')
        # self.copy_of_image = self.image.copy()
        # self.photo = ImageTk.PhotoImage(self.image)
        # self.label = tk.CTkLabel(self.main, image = self.photo)
        # self.label.bind('<Configure>', self.resize_image)
        # self.label.pack(fill=BOTH, expand = YES)
        self.main.title('LOGIN')
        self.main.geometry('900x650')
        tk.CTkLabel(self.main, text='Username',
                    text_color='black').place(x=180, y=40)
        tk.CTkLabel(self.main, text='Password',
                    text_color='black').place(x=180, y=80)

```



```

tk.CTkLabel(self.main, text='Dont have an account? Sign in Now',
            text_color='black', width=300).place(x=300, y=470)
self.user = tk.CTkEntry(self.main)
self.user.place(x=280, y=40)
self.pswd = tk.CTkEntry(self.main, show='*')
self.pswd.place(x=280, y=80)
tk.CTkButton(master=self.main, text='Login', width=100,
text_color='black',
            fg_color='grey', bg='white',
command=self.login).place(x=280, y=110)
tk.CTkButton(master=self.main, text='Sign Up', width=100,
text_color='black',
            fg_color='grey', bg='white',
command=self.signup).place(x=375, y=500)
tk.CTkButton(master=self.main, text='Update', width=100,
text_color='black',
            fg_color='grey', bg='white',
command=self.update).place(x=280, y=140)
tk.CTkButton(master=self.main, text='Admin', width=100,
text_color='black',
            fg_color='grey', bg='white',
command=self.chkadmin).place(x=375, y=200)
tk.CTkButton(master=self.main, text='Instructions', width=100,
text_color='black',
            fg_color='grey', bg='white',
command=self.sample).place(x=500, y=400)
self.tgbutton = tk.CTkButton(master=self.main, text='Show
Password', text_color='black',
                                width=200, fg_color='grey',
bg='white', command=self.togglepas)
tk.CTkButton(master=self.main, text='VIEW', width=100,
text_color='black',
            fg_color='grey', bg='white',
command=self.view).place(x=375, y=400)
self.tgbutton.place(x=500, y=80)
tk.CTkButton(master=self.main, text='highscore', width=100,
text_color='black',
            fg_color='grey', bg='white',
command=self.open1).place(x=375, y=400)
self.main.mainloop()

def open1(self):

```

```

os.system('highscore.csv')

def view(self):
    f = os.system(r'view.csv')
    f = open('view.csv', 'a+', newline='')
    r = csv.reader(f)
    w = csv.writer(f)
    db = sql.connect(host='localhost', user='root',
                     database='project', password='password')
    cursor = db.cursor()
    cursor.execute('select username from login;')
    user = cursor.fetchall()
    w.writerow(user)
    db.commit()
    db.close()

def sample(self):
    f = os.system(r'instructions.txt')

def togglepas(self):
    if self.l:
        self.l = not self.l
        self.pswd.configure(show='')
        self.tgbutton.configure(text='Hide Password')
    else:
        self.l = not self.l
        self.pswd.configure(show='*')
        self.tgbutton.configure(text='Show Password')

def insert(self, user, pswd, email):
    db = sql.connect(host='localhost', user='root',
                     database='project', password='password')
    cursor = db.cursor()
    cursor.execute(
        'insert into login values("%s","%s","%s");' % (email, user,
pswd))
    readstat(name=user, mode='w')

```

```

db.commit()
db.close()

def recupdate(self, user, pswd, email):
    db = sql.connect(host='localhost', user='root',
                     database='project', password='password')
    cursor = db.cursor()
    cursor.execute(
        'update login set username="%s" where email_id="%s";' %
        (user, email))
    cursor.execute(
        'update high set username="%s" where email_id="%s";' %
        (user, email))
    cursor.execute(
        'update login set password="%s" where email_id="%s";' %
        (pswd, email))
    db.commit()
    db.close()

def admin(self):
    global trv
    self.adm = Toplevel()
    self.adm.geometry('800x500')
    self.adm.title('ADMIN')
    Label(self.adm, text=' ADMIN - changes can be
done').place(x=100, y=20)

    #
    upd=tk.CTkButton(self.adm,text='Update',width='10',fg='blue',text_color=
'black',bg='white',command=self.uprec).place(x=200,y=150)
    tk.CTkLabel(self.adm, text=' User Deletion ',
                text_color='black').place(x=70, y=250)
    tk.CTkLabel(self.adm, text=' User Search ',
                text_color='black').place(x=70, y=350)
    dele = tk.CTkButton(self.adm, text='Delete', width=10,
fg_color='blue',
                        bg_color='white',
command=self.delrec).place(x=200, y=250)
    ser = tk.CTkButton(self.adm, text=' Search', width=10,

```

```

        fg_color='blue',
bg_color='white').place(x=200, y=350)

        add = tk.CTkButton(self.adm, text='Add', width=10,
fg_color='blue',

                                bg_color='white', text_color='black',
command=self.addrec).place(x=200, y=85)

        tk.CTkLabel(self.adm, text=' Username').place(x=300, y=85)
        tk.CTkLabel(self.adm, text=' Email').place(x=400, y=85)
        tk.CTkLabel(self.adm, text=' Password').place(x=450, y=85)
        self.nuser = tk.Entry(self.adm)
        self.nuser.place(x=300, y=100)
        self.nemail = tk.Entry(self.adm)
        self.nemail.place(x=400, y=100)
        self.npswd = tk.Entry(self.adm)
        self.npswd.place(x=450, y=100)

# tree function

        db = sql.connect(host='localhost', user='root',
                                database='project', password='password')
        cursor = db.cursor()
        cursor.execute('SELECT*FROM LOGIN;')
        al = cursor.fetchall()
        trv = ttk.Treeview(self.adm, selectmode='browse')

        trv.place(x=300, y=200)
        verbar = ttk.Scrollbar(self.adm, orient="vertical",
command=trv.yview)
        # verbar.pack(side ='right', fill ='x')
        verbar.place(x=570, y=200)

        trv.configure(xscrollcommand=verbar.set)

        trv["columns"] = ("1", "2", "3")

        trv['show'] = 'headings'

        trv.column("1", width=80, anchor='c')

```

```

trv.column("2", width=105, anchor='c')
trv.column("3", width=80, anchor='c')

trv.heading("1", text="username")
trv.heading("2", text="Email")
trv.heading("3", text="Password")
for i in al:
    trv.insert("", 'end', iid=i[0],
               text=i[0], values=(i[1], i[0], i[2]))

def delrec(self):
    sel = trv.selection()
    for i in sel:
        trv.delete(sel)
    db = sql.connect(host='localhost', user='root',
                     database='project', password='password')
    cursor = db.cursor()
    cursor.execute(f"delete from login where username='{sel[0]}'")

    db.commit()
    db.close()

def chkadmin(self):
    if self.user.get() == 'admin' and self.pswd.get() == '12345':
        self.admin()
    else:
        Label(self.main, text=' not admin ').place(x=200, y=250)

def addrec(self):
    trv.insert("", 'end', iid=0, text='', values=(
        self.nuser.get(), self.nemail.get(), self.npswd.get()))

    db = sql.connect(host='localhost', user='root',
                     database='project', password='password')
    cursor = db.cursor()
    cursor.execute('insert into login values ("%s", "%s", "%s");' %

```

```

        (self.nuser.get(), self.nemail.get(),
self.npswd.get()))
        db.commit()
        db.close()

    def uprec(self):
        '''sel=trv.selection()

db=sql.connect(host='localhost',user='root',database='project',password=
'password')

        cursor=db.cursor()
        cursor.execute('update login set
("%s","%s","%s");'%(self.nuser.get(),self.nemail.get(),self.npswd.get())
)

        db.commit()
        db.close()'''

self.uprec = Toplevel()
self.uprec.geometry('800x500')
self.uprec.title('ADMIN')
Label(self.uprec, text='UPDATE RECORD').place(x=100, y=20)
Label(self.uprec, text='user').place(x=100, y=200)
Label(self.uprec, text='email').place(x=100, y=300)
Label(self.uprec, text='pswd').place(x=100, y=400)
self.user1 = tk.Entry(self.uprec)
self.user1.place(x=100, y=300)
self.email1 = tk.Entry(self.uprec)
self.pswd1 = tk.Entry(self.uprec)
self.email1.place(x=100, y=400)
self.pswd1.place(x=100, y=500)

    def login(self):
        db = sql.connect(host='localhost', user='root',
                        database='project', password='password')

        cursor = db.cursor()
        cursor.execute('SELECT*FROM LOGIN;')
        u = self.user.get()
        p = self.pswd.get()

```

```

w = cursor.fetchall()

def check():
    for i in w:
        if i[1] == u and i[2] == p:
            end.end = True
            end.user = i[1]
            self.main.destroy()
            game(u)

tk.CTkButton(master=self.main, text='Login', width=100,
             fg_color='grey', bg='white',
command=check).place(x=280, y=110)
db.close()

def update(self):
    db = sql.connect(host='localhost', user='root',
                    database='project', password='password')

    cursor = db.cursor()
    user1 = self.user.get()
    pswd1 = self.pswd.get()
    cursor.execute('SELECT*FROM LOGIN;')
    w = cursor.fetchall()
    db.close()
    new1 = Toplevel()
    new1.geometry('1000x800')
    new1.title('Update')
    tk.CTkLabel(new1, text='UPDATE YOUR CREDENTIALS').place(x=100,
y=10)
    tk.CTkLabel(new1, text='Username').place(x=180, y=40)
    tk.CTkLabel(new1, text='Email').place(x=180, y=70)
    tk.CTkLabel(new1, text='Password').place(x=180, y=100)
    tk.CTkLabel(new1, text='confirm Password').place(x=180, y=130)
    g1 = tk.CTkEntry(new1)
    g2 = tk.CTkEntry(new1)
    g3 = tk.CTkEntry(new1)
    g4 = tk.CTkEntry(new1)

```

```

g1.place(x=500, y=40)
g2.place(x=500, y=70)
g3.place(x=500, y=100)

g4.place(x=500, y=130)

print(g3)
# def check1():

def rec():
    if g3.get() == g4.get():
        print('y')
        self.recupdate(g1.get(), g3.get(), g2.get())
        new1.destroy()
    elif g3.get() != g4.get():
        tk.CTkLabel(self.new, text='Your password doesnt
match').place(
            x=200, y=250)
        elif g3.get() == '' or g4.get == '':
            tk.CTkLabel(self.new, text='No password').place(x=200,
y=250)
        tk.CTkButton(new1, text='Update', width=10, fg_color='blue',
            bg='white', command=rec).place(x=250, y=160)

def signup(self):
    new = Toplevel()
    new.geometry('1000x800')
    new.title('Sign Up')
    tk.CTkLabel(new, text='SIGN IN NOW WITH YOUR CREDENTIALS',
        text_color='black').place(x=100, y=10)
    tk.CTkLabel(new, text='Username',
        text_color='black').place(x=180, y=40)
    tk.CTkLabel(new, text='Email', text_color='black').place(x=180,
y=70)
    tk.CTkLabel(new, text='Password',
        text_color='black').place(x=180, y=100)
    tk.CTkLabel(new, text='Confirm Password',
        text_color='black').place(x=150, y=130)

```



```

e1 = tk.CTkEntry(new)
e2 = tk.CTkEntry(new)
e3 = tk.CTkEntry(new)
e4 = tk.CTkEntry(new)
e1.place(x=300, y=40)
e2.place(x=300, y=70)
e3.place(x=300, y=100)
e4.place(x=300, y=130)

def validate():
    global l
    pswd = e3.get()
    conf = e4.get()
    user = e1.get()
    email = e2.get()
    if pswd != conf:
        tk.CTkLabel(new, text='Your password doesnt
match').place(
            x=200, y=250)
    elif pswd == '' or conf == '':
        tk.CTkLabel(new, text='SOMETHING IS MISSING').place(
            x=200, y=300)
    elif len(e1.get()) > 15:
        tk.CTkLabel(new, text='Exceeded Limit').place(x=200,
y=400)
    else:
        self.insert(user, pswd, email)
        new.destroy()

    tk.CTkButton(master=new, text='Sign Up', width=100,
fg_color='grey',
                bg='white', command=validate).place(x=375, y=200)

def resize_image(self, event):
    new_width = event.width
    new_height = event.height
    image = self.copy_of_image.resize((new_width, new_height))
    photo = ImageTk.PhotoImage(image)

```

```
self.label.config(image=photo)  
self.label.image = photo
```

```
a = window()
```

# **LOG OF PROJECT**

## **LOG-1:15/6/2022**

- Ideation
- Discussion of topic – Balloon Shooter

## **LOG-2:27/6/2022**

- Searched for various modules available to make the game
- Learning to work with Tkinter

## **LOG-3:10/7/2022**

- Decision to use pygame module to make the game

## **LOG-4:23/7/2022**

- Created SQL table login
- Worked on Home screen
- Worked on sign up and login options using Python-SQL Connectivity

## **LOG-5:24/7/2022**

- Fixed bugs and errors

## **LOG-6:26/7/2022**

- Imported modules and worked on the main game

## **LOG-7:30/7/2022**

- Worked on admin options

## **LOG-8:3/8/2022**

- Worked on the main game program, added background

### **LOG-9:4/8/2022**

- Worked on main game program, added all features and positioned the lower platform

### **LOG-10:5/8/2022**

- Created login page

### **LOG-11:6/8/2022**

- Worked on login page

### **LOG-12:7/8/2022**

- Worked on admin options: Integrating admin options( Update and Delete)

### **LOG-13:14/8/2022**

- Worked on user options: Integrating user options

### **LOG-14:1/9/2022**

- Created text file

### **LOG-15:8/9/2022**

- Created csv file

### **LOG-16:12/9/2022**

- Worked on the main game program and completed it

### **LOG-17:6/11/2022**

- Completed login page

### **LOG-18:9/11/2022**

- Worked on integrating all the program files together

**LOG-19:12/11/2022**

- Worked on various bug fixes and improvements

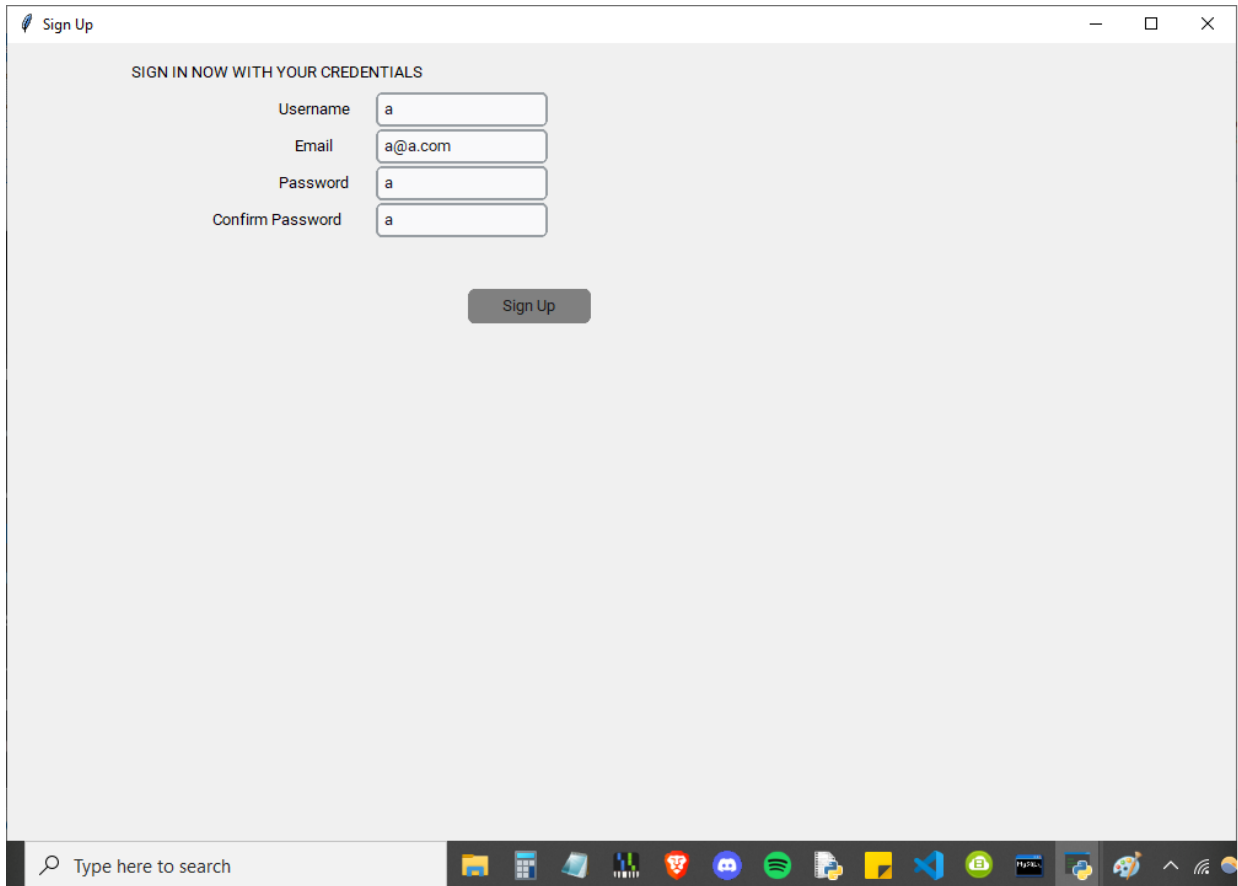
**LOG-20:28/11/2022**

- Improvements in the design of GUI interface and layout
- Worked with color combinations and backgrounds

**LOG-21:15/12/2022**

- Completion of Project and Submission

# SAMPLE OUTPUT



The image shows a screenshot of a web browser window titled "Sign Up". The window displays a sign-up form with the heading "SIGN IN NOW WITH YOUR CREDENTIALS". The form contains four input fields: "Username" with the value "a", "Email" with the value "a@a.com", "Password" with the value "a", and "Confirm Password" with the value "a". Below the input fields is a "Sign Up" button. The browser's taskbar is visible at the bottom, showing a search bar and various application icons.

Sign Up

SIGN IN NOW WITH YOUR CREDENTIALS

Username

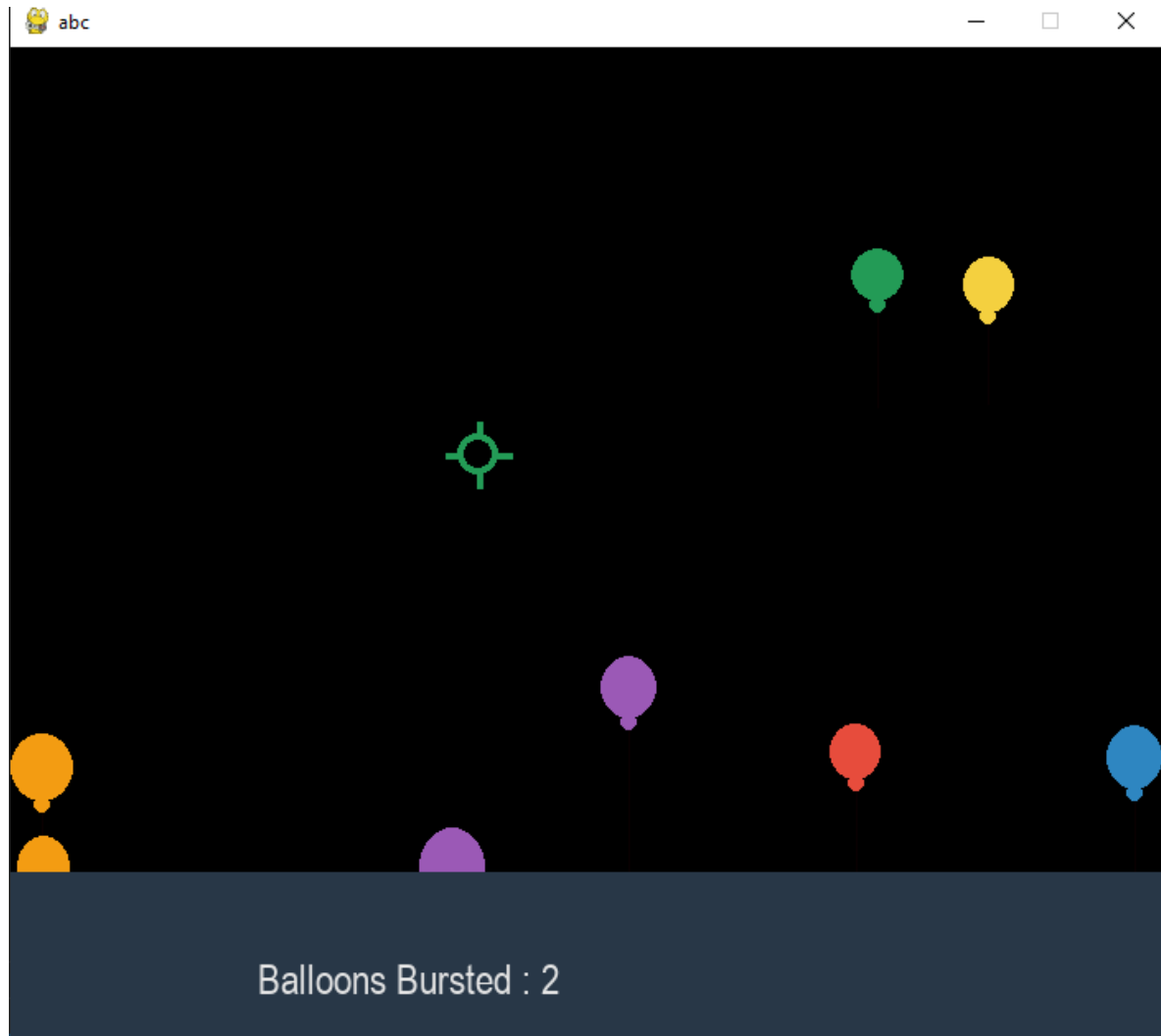
Email


Password

Confirm Password

Sign Up

Type here to search



 ADMIN

ADMIN - changes can be done

Add

Username	Password
----------	----------

User Deletion

Delete

User Search

Search

username	Email	Password
a	a@a.com	a





# **BIBLIOGRAPHY**

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- <https://pythonexamples.org>
- <https://effbot.org/>