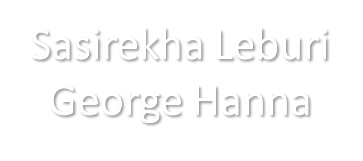
**Text Based Game**

Group - 4

<https://replit.com/@GeoHan1/A-Quiet-Weekend-v22>

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**Introduction:**

**1.1 Story board:**

Let me begin with a lovely quote:

*This morning,*

*I woke up to the sounds of the birds singing,*

*Giving us their morning song that they love.*

*I look out through the open window to feel the breeze,*

*The wind dances everywhere as the sun rises.*

*It’ll be a beautiful day, because God made it this way.*

A picture containing sky, tree, outdoor, orange

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* + 1. **Streamline- Project**

George narrated a story to our project storyline which is a **Text-Based-Game-Project**

You hear songbirds outside cheerfully chirping in morning song as the golden light graciously paints the room.  
Thank God it's a Saturday", you smirk, as you turn to your side and close your eyes just as slowly as you'd opened them.  
...Ten minutes pass  
You wake up suddenly...  
Wake up! I'll be out today and it's your turn to babysit!  
You sense by an overwhelming feeling of dread and realization in equal measure, as you remember that peace and quiet is a thing of the past.  
"Well?"  
"Alright, Dear."  
Accepting defeat, you get up and make your way to the living room...'

You see Bob Junior slouched on the sofa, flicking through the TV channels.  
He almost seems to be falling asleep himself, just as you were a few minutes ago.  
"I'm bored!" he proclaimed out loud.  
"Why not play some games?" I suggest.  
"OK."  
"What do you want to play?

Now Bob chooses his choice of games to play as he wishes to have a wonderful and quiet weekend.

1. **Design Documentation**
   1. **Structure of project:**

Our objective is to create different minigames like Quiz, Puzzle games, Dice games. So, we create a Packages of modules imported in a main python file and entry code run fast and Packages are an essential building block in programming.

**Why do we use packages?**

Diagram

Description automatically generatedWithout packages, imagine having to write code from scratch every time you wanted to parse a file in a particular format. You would never get anything done! That’s why we always want to use packages.

* 1. Diagram

     Description automatically generated**Flowchart-Project:**

1. **Testing**
   1. **Error handling Techniques:**

As it is Text-Based-Project our group we added Try and except statements, which are used to catch and handle exceptions in Python. Statements that can raise exceptions are kept inside the try clause and the statements that handle the exception are written inside except clause.

For example, dice\_game.py

while True:  
 try:  
 number\_input = int(input("Type an integer between 1 and 10: "))  
 if(number\_input > 0 and number\_input < 10):  
 break  
 else:  
 print("Invalid input. Try again.")  
  
 except:  
 print("Please provide an Integer")

* 1. **Run through the debug mode:**

We can test the code by clicking the code line and clicking the Debug mode button, it checks the code to see what’s happening inside the for loop by pressing some alt+shift+F7 or F7 into the code.

![Graphical user interface, text

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNhc2kAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5MwAAkpIAAgAAAAM5MwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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RRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQA1fvN9f6CnU1fvN9f6CnUAFFFFAE2pyibUJ5VfzA8uQ+9m3c9csAx+pGahqfVGkfUbhpoRBIZSWiAwEOelRRxvLKkca7ndgqgdyaS2H1G0V32l+G7/w9C15EbW6m25eFkOcDqFf1/CsbxmbCaayu7EKr3MPmSKoxxxtJHr1H4Uua7N5UHGHNLfscwP9YfoP606mj/WH6D+tOqjnCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAGt95fr/Q06mt95fr/Q06gAooooA1XM32zA8zG4YwPl24559aq3m8QQiQsWDOMt1xu4/Smfb7n/np/wCOio5Z5J8ea27b04AreVRNNI5oUpRkmzrfC+nWlvNp07x3Ul1d29zKkiECKNVV12kYyTwSTkYyODVe40i1S0+36hLe3cUFlat5SzAPmQHGGKttRcYAweoFYNvquo2lq1ta391BAzFmijmZVJxjJAOM4pINV1C1uFntb+6hmWMRLJHMysEHRQQc49qwO7nja1ja/sXR4vDMeoXd48NxdpM9tGWY42EgJgREMSRyd6Y3A49c/Rbc3EWp/v5ovKsXkIifbvwy/K3qvPT2FQ2+tajbRyRJe3Jt5mLTwee4SbP3t4BGcjg96W51NZVxZWMGnblKyG1km/eKcfK29244oFeOjOin8MaS1/NaWjXqta3tvBLJJIhEiykg7QFG0jjqTnrgdKjTw1pdzcolub2FVup7VxM6FpGSMsGXCjbyMFeeo5rAs9XurbUo7uWaafE8c0qNKf3pQ5G49/qc4pb3W9QvtQW7lvbkvE5a3LTsxg5yAp7Y46Y6UtSuaG9jf0fStMg0Nry/tZ7lrjTZpseYqhNkoXK5Q4Pv9fXjC0nSv7T8393qD+Xj/jzs/Pxn1+ZcU1td1drtbptUvTcKCqzG4feAeo3ZzVCmRJppJF0Wwt9bW3ZZQElA23EXlufYrk4P41LDALsBriWXDzSbgGz0XOfrWfHI0UqyJ95GDD6inNcSFyyMYwWLBUJAGeuKOhBoRQWiwvL5UjI9uWCs4ypDY67f6etVpv3lvZlzjgryeSNx5+nb8KgS4miKmOWRCoIUqxGAetJJMZEjUgARrtAH1zn9afUDovE4R45vIe7SGzuzbJBNIDHjBwY1AAXheeudwOea5qpp7y5uY4o7m4mmSFdsayOWCD0APQcCoalAFFFFMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBq/eb6/0FOpq/eb6/0FOoAKKKKALOrxTQapcxXMhlmSYh3IwWOetQwTPbXEc8XDxOHXPqDkUl3BJa3ElvOuyWKTY65BwwOCOKbR0HfqdxcfEGJ9PYQWki3TLj5iNin1z1P5Vw5OetFFJJIupVnU+IaP9YfoP606mj/WH6D+tOpmYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQA1vvL9f6GnU1vvL9f6GnUAFFFFAGm0NmsvlmNs5AJycAntVW7SERxPAhUMWBznscVaM1m03mec3UMVwcEjoelVbySFkjWBywBYnI9TmumfLyu1jkp8/Mr3EtrOW4Bba6xgMfM2kjIGcZ/Cmi1lkk2QRSyHaGI8s5x64GePerUN7AkSFzMJEieLaoG05zznPv0xT49SiAZTuTKx4bylkwVXHRv51XJSstf61Nead9jMoq/p2o/Yb6SfzLxd4I3Wlx9nc5OeTtbj2pmoX5vb/7SGuXIA5u5/Pfj1baMj2xXIbDJrTy5ZI0MkjIwX5Y+CT26+vT1oi067lmWIQSKzKWXchGQB9P85q011Fb3k3JdXmSVWVt3AJPXPXmmQ6hGpHm+Yf30jk4ycMuPXrQBUktzHbrISQ29kZGXBUjH+NX7nR0gsXkW5L3MCRyTwmPARXxjDZ5I3KCMDBPeqjlEsAiNu3SscHGcAAA47d6v3eq2s1nO0SzfarqKKKZWUBECbeQc5OSinoMc9aAMeiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBq/eb6/wBBTqav3m+v9BTqACiiigC94i/5GTU/+v2T/wBGGqNJKzOSzkszMCSTkk5qSGPzp0jDKm9gu5zhRnuT2FAHQx+DblrOF5bhUupxujtwuTjuWOflAHJPb68Vkatb2lpe+RYzSTqiAPKwwHbuVH93piuu/t/SRNNHd3jTKuBM6xnN0R/COwjHpnnqffkNWv8A+09WnvNmwSN8q+gAwP0FJXNpqFrx/rzKI/1h+g/rTqaP9YfoP606mYhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFADW+8v1/oaeiPJIqRqzuxwqqMkmmN95fr/Q1PaJPJeQpaEidnAjIbaQ2eOe1AEVAGSBnHua1vEM1tNfIYCklwqYup4hiOWTuyj+Z7nnArMhUNPGpGQWAIOeefbn8qAJmsJxcSwoodoW2sVPH61HNbS2+3zk27unINX5/Ij1K5DzzQjIwV3gscck7hn8/XvVW9aJtnkzyTdc+YScfpWnKuW/Uy5pc9unoVaK6fT9A02507TTP9s+06hHOyyI6iKEx7uSCuWHAyMjHXJ6UyTQdPSyMWboXa6ct8bguvkkHB2bNuRwcbt33u1ZnT7N2uc3RXVNomifbk8t5ns5o3FpKb1F+1yBlG3Ji/cnBPDjrjnBzV7T9PSzsZheG8Mf9m3Ykt/NDGIJOAVU4wOnJwRnJx2pXGqbbOHortYNFt2sLmztJJIYdQawZfPIZ4fMZuCRgH16DIIrD8R2GlafcpFpN00zq7pNGzOxQqQASWij5PPABxjrzT6idNpXMaiuwEUN74f8PadDHcJFL51xcj7UERthbe5AjPIVcg4YgDABqG+8PaXYNdXm+5urGKC3lSKKTa7eaOpdox8owedgzlRgdaA9m91/XU5WiurkttAl03QvPhms0mSdpJjMp3YZgFYiLPLbRuwdo7GsiXSseIWsPs91EM5EUO27kAK7hgrtV+OcjHFHWxMo2VzLoq/q2m/2bLGmy+TepP8Aplp5B/AbmyKlJO6ZM5VLNQvp/Ccj69aNyTLorTntYBJcbmlnljclgZQp2jHPIO7v0qPUo4FubjyYpE2uFGMFBwc9hjtgfWgChRWooU6akKNMheF5WKthGIJ4YY56AdeOKfZEt4j0tyfmaSAtnrnI5P160dQ6GRRW5a3k8sWuJK+/zIS7uygux8xOrdce2cVkWiTvewraAmdnAjA/vZ460ARUVp61fG7e3R7lryaCMpJcsSTISxOMnkgZwCas+H55THNaJczKJo5NtswPkynYclyD1GAR8p5HVetHRgYdFWLC1F7fRW7TRwLI2GklcKqjucnArX8URssemNiFYxbFI1imSTCiRsZKk5OMZPc5oAwKK3tAuzLay6Qj3UDXBZzNBPtXAQ8OuPmXg9x1rO0WGK416xhuBmJ7hFcHuNw4o62DoUqK65LmWa+guo7m+VLiC6haG5m3EBUJwMAALkj5cYBU+lcjQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUANX7zfX+gp1NX7zfX+gp1ABRRRQA1/u/iP506mv938R/Onq5UYG38VBoASineY3ov/AHwKDISMYX/vkUARj/WH6D+tOpo/1h+g/rTqACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAGt95fr/AENOprfeX6/0NOoAKVW2uGIDYOcHoaSigC7/AGpN9okmCRgyBQRg4GBgY5qG6vJLvb5gUbc42irjQ2ay+WY2zkAnJwCe1VbtIRHE8CFQxYHOexxW0oyUbX0OeMoSndLUtyeILw6HbaZbzT28ESOkqxzELOGYt8yjjjOOc1UOpXzWC2Jvbg2inctuZW8sHOchc461an8Panb6fYXrWkrRX5xBtjYknJAXp1OMgDORUlr4V1q6nuoV065jmtYfOeKSBwxGcAAYzk849cGsTrtN6EP/AAkWtfavtP8AbF/9o2eX5v2p923Oduc5xnnFQQ6rqFs6Pb39zEyAhGjmZSoJ3HGDxk8/Wp7TQ76eWxM9tcW9rezJDHdPC2wljjgnAPfjParN7odvp+nrNd3sommMv2dUt90bhHKkM+7KsSDwFOMrk88AWm9TMmv7y4aZp7ueVpyGlLyEmQjoWz1x71dGv3M5H9sL/bAUYiF/cTN5Xrt2uuM4H5Cqf9nXvmPH9juN8bqjr5TZVm+6CMcE9h3qwvh/WWYKuk3xZk8wAWz5Kf3unT3oEuYiOp3K3Uc1rLJaeSxMCQSuBBk5IQkkjr605da1RL43ialeLdMu0zidg5HpuznFUqKBczLsWt6rbhRBqd5EFkMq7LhhhyCCwwepBIJ9zVWaeW5nea4leWWQ7nkkYszH1JPWpprTy5ZI0MkjIwX5Y+CT26+vT1oi067lmWIQSKzKWXchGQB9P85oC7K1SyXLybf4SEEZK5G4D1/T8qJLcx26yEkNvZGRlwVIx/jV+50dILF5FuS9zAkck8JjwEV8Yw2eSNygjAwT3oEUDdXBjaMzyFHOWUucMfUikkuJpRiWWRxxwzE9On8zUdFADxNKITEJHETHJQMdpP0qaO+ki1CG7RU3wsjIuDt+XGB1z29arUUATS3TPPNJEBAs2d0cTNtxnOOSSRkdyakn1G5m1D7armGYEbDESvl4GAF5yMACqtFAF+XW9QubaWG7uprjzQFLzSM7BQc7QSeATgn6Cq8d/eQ2j2sV1OlvIcvCshCN9RnBqCigCe8u5L66aeUKGYABV6KAMAD2AAFOTUJ0s5bYNlJFVCSSSqht20egJ5I9RVaigCeK/u4bWS2hupo7eTl4lkIR/qOhovLyS9u2uJdqscAKvAUAYAHsAAKgooAvxazdrdNc3LG9mMLQq9y7uUBBHHzehPXI56VQoooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAGr95vr/AEFOpq/eb6/0FOoAKKKKAJtR+zi+n+xf8e/mny+v3d3GM84+vNRwxPPMkMKl5JGCqo6kngCpNTh+z6hPCVjXy5duIt2wYPbdzj6021KC7hM0jxx7xudPvKM8ke9JbAdXa/D3UJNNuZLr9zdqcQQblPmY6854rmtR0u80m6FvqEJhlKBwpIOQfpXod1Bpeu6jB4gt9ZdbbTNomBjbPynOR06/Q1x3i++s9R8QyXWn3Ek8UiKSXBG04+6M9v65pgYI/wBYfoP606mj/WH6D+tOoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAa33l+v9DTqa33l+v8AQ06gAooooA0zNZtN5nnN1DFcHBI6HpVW8khZI1gcsAWJyPU5qtRWkqjasYxpKLumdHp2v2VpBpBkFz51kJopFRFwUk3fOrbvvDd0xg46inw65pkMA0/zLx7MWctuLhoV8wM7h+I9+AoxjG7uT7VzNFZnUqjX9f12OutvEuk2emWtvbwzIUltpJEW1jHzRtlz5mdz7iSQGwF6VTi1qwhsdSAlvZTerJmykiXyN7N8sm7dkMoweFzkYzg1ztFAe0Z2DeJ9JFzNeIL1p7q6triWMxIFi8s5YK28ls54JC9KqR+J0DQGRrpjHrB1BjnOV+X3+9wf8a5qiiwe0kadtqi2ur3N3G15GkrNt+yXPkOAWzgna3HtUGoX5vb/AO0hrlyAObufz349W2jI9sVTooM9zTa6it7ybkurzJKrK27gEnrnrzTIdQjUjzfMP76RycZOGXHr1rPooAsuUSwCI27dKxwcZwAADjt3q/d6razWc7RLN9quoooplZQEQJt5Bzk5KKegxz1rHooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBq/eb6/wBBTqav3m+v9BTqACiiigCfVY/K1K4j/enbMRmYgufm6kjIJ+lQVY1ZGi1S6SSZp3WchpXGC53dTyf51ArADlFb65pLYbFWWRUZFdgrfeUHg/WtbUPFesapottpd7eNJa233V7v6bj3x2rJ3r/zzX8z/jQXBH+rUfif8aYiMf6w/Qf1p1NH+sP0H9adQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQA1vvL9f6GnU1vvL9f6GnUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFADV+831/oKdTV+831/oKdQAUUUUAS38JtryaExPCY5NpjdwzLg9CQACfwqKpL9YEvJls3LwCTEbHPK5461HQtgNPw/oU/iDUxawN5ahS0kpGQg/8A18VX1PTLrSL97S9j2SJ+TDsQe4r0jSNWi8OWFlpOqztLfyxl1ATKxgj5ULd/TPP5V57rWu3uvXYnv3B25CRqMKg9BQBmD/WH6D+tOpo/1h+g/rTqACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAGt95fr/AENOprfeX6/0NOoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAGr95vr/AEFOpq/eb6/0FOoAKKKKAP/Z)For example,

1. **Evaluation**
   1. **Formative:**

In our project, we checked multiple times of evaluation while running a code especially gaming programs to identify the problems.

For example, Minesweeper.py

I run function **check\_mines** to check the iterations are correctly placed in their respective row column of a 3\*3 matrix.

def check\_mines(row, col):  
 t = 0 #total mines around spot  
 i = row-1  
 while i <= row+1:  
 if i>=0 and i< 3:  
 j = col-1  
 while j <= col + 1:  
 if j>=0 and j<3:  
 t = t+board[i][j]  
 j = j+1  
 i = i+1  
 return t

* 1. **Summative:**

Summation evaluation evaluates the objectives and overall text-based-game. In our project, main.py imports the minigames modules and runs the program without flaws.

We use imported Flask app in our python project through webserver.

Graphical user interface, diagram

Description automatically generated

1. **Reflections:**

About the project, Text-based-game-group package which includes Minigames-Modules, main.py and \_\_inti\_\_.py. George and I have done testing using error handling techniques to run the code smoothly in the main.py. We added some choices of different gaming list that the boy can play. George added interesting storylines and code looks wells. George shared his idea of importing flask app in Text-based-project python file to create a webpage through HTML. We raised some web-server error, and the response is not clear. I tried some java script techniques, but it didn’t work well. We decided to integrate our project this flask with webserver without response HTML in Replit.

1. **Code:** (Appendix A)

Diagram

Description automatically generated

**main.py**

# This is the main file from which the game can be played. It runs code from the module files  
# located at 'Minigames\_Module'.  
  
import Minigames\_Module.tic\_tac\_toe as ttt  
import Minigames\_Module.dictionaries\_capitals\_quiz as quiz  
import Minigames\_Module.dice\_game as dice  
import Minigames\_Module.minesweeper3\_3 as mine  
#import replit  
from flask import Flask, render\_template, request  
  
app = Flask(\_\_name\_\_)  
  
"""  
  
A Quiet Weekend: A Text-Based Game with Mini-Games  
  
"""  
  
# CHAPTER\_0: TITLE  
Chapter\_0 = r''' ⁺˚⋆｡ °✩₊ \* ⁺˚⋆｡ °✩₊ \*  
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 | | Group 4 proudly presents |  
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 | A QUIET WEEKEND: | \*   
 | A text-based game | ⁺˚⋆｡ °✩₊  
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'''  
  
# CHAPTER 1: INTRODUCTION  
Chapter\_1 = str(  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
 'You hear songbirds outside cheerfully chirping in morning song as golden beams of \nspring sunshine paint the room.\n'  
 '\"Thank God it\'s a Saturday\", you smirk, as you turn to your side and close your eyes \njust as slowly as you\'d'  
 ' opened them.\n\n'  
 '...Ten minutes pass\n'  
 'You wake up suddenly...\n\n'  
 '\"Wake up! I\'ll be out today and it\'s your turn to babysit!\"\n'  
 'You sense an overwhelming feeling of dread and realisation in equal measure,\n'  
 'as you remember that peace and quiet is a thing of the past.\n\n'  
 '\"Well?\"\n'  
 '\"Alright, Dear.\"\n\n'  
 'Accepting defeat, you get up and make your way to the living room...\n'  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
)  
  
# CHAPTER 2: LET THE GAMES BEGIN!  
Chapter\_2 = str(  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
 'You see Bob Junior slouched on the sofa, flicking through the TV channels.\n'  
 'He almost seems to be falling asleep himself, just as you were a few minutes ago.\n'  
 '\"I\'m bored!\" he proclaims loudly.\n'  
 '\"Why not play some games?\" I suggest.\n'  
 '\"OK.\"\n'  
 '\"What do you want to play?\"\n'  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
)  
  
# CHAPTER 3: BOREDOM STRIKES AGAIN  
Chapter\_3 = str(  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
 'Bob Junior\'s smile has started to fade\n'  
 '\"I\'m getting bored again. Can we play something else?\"\n'  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
)  
  
  
# Post-game dialogue function  
def change\_game():  
 text = input('\nPress the ENTER key on your keyboard to continue...')  
 if text == '':  
 print(Chapter\_3)  
 else:  
 print('Please only press the ENTER key. Try again.')  
  
  
# Function to direct players towards their selected mini-game from their respective modules which contain  
# a \_\_main\_\_ function, using the main() call. A number from 1-4 must be selected, else the player is  
# redirected to choose again.  
def game\_selection\_prompt():  
 while True:  
 try:  
 #replit.clear()  
 user\_input = int(  
 input('Please select a game to play:\n\n'  
 '1 - Tic-Tac-Toe\n'  
 '2 - Quiz\n'  
 '3 - Dice \n'  
 '4 - Minesweeper\n'  
 'Your Choice: '))  
 if user\_input == 1:  
 #replit.clear()  
 print('\n\"Let\'s play Tic-Tac-Toe!\"\n')  
 print(  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
 )  
 print(  
 '\nYou hurry to the nearby table to grab a pen and a sheet of paper.\n'  
 )  
 print(  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
 )  
 ttt.main()  
 change\_game()  
 elif user\_input == 2:  
 #replit.clear()  
 print('\n\"Let\'s have a quiz!\"\n')  
 print(  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
 )  
 print(  
 '\nYou pause for a minute as you try to recall the questions and answers '  
 'to the last pub quiz \nthat you went to.\n')  
 print(  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
 )  
 quiz.main()  
 elif user\_input == 3:  
 #replit.clear()  
 print('\n\"Let\'s roll dice!\"\n')  
 print(  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
 )  
 print(  
 '\nAfter searching for a few minutes, you find the dice between the sofa cushions, \nalongside some change and some chewing gum.\n'  
 )  
 print(  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
 )  
 dice.main()  
 change\_game()  
 elif user\_input == 4:  
 #replit.clear()  
 print('\n\"Let\'s play Minesweeper!\"\n')  
 print(  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
 )  
 print(  
 '\nDespite tiredly mistyping your password twice, \nyou finally manage to boot up your laptop and launch Minesweeper.\n'  
 )  
 print(  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n'  
 )  
 print('\n\"Alert! You must avoid hitting the mines...!\"\n')  
 mine.main()  
 change\_game()  
 elif user\_input != range(1, 4):  
 replit.clear()  
 print('\nPlease type a whole number between 1 and 4!\n')  
 game\_selection\_prompt()  
 break  
  
 except ValueError:  
 print('\nYou have not typed a number.\n')  
 play\_again = input("\nWould you like take a break? (Y/N)").upper()  
 if play\_again == "N":  
 game\_selection\_prompt()  
 continue  
 else:  
 play\_game()  
 continue  
  
  
# The following are functions that are called upon later; they switch between the dialogue chapters.  
def next\_chapter\_1():  
 text = input()  
 if text == '':  
 print(Chapter\_1)  
 else:  
 print('Please only press the ENTER key. Try again.')  
 next\_chapter\_1()  
  
  
def next\_chapter\_2():  
 text = input('Press the ENTER key on your keyboard to continue...')  
 if text == '':  
 print(Chapter\_2)  
 else:  
 print('Please only press the ENTER key. Try again.')  
 next\_chapter\_2()  
  
  
def next\_chapter\_gsp():  
 text = input('Press the ENTER key on your keyboard to continue...')  
 print(  
 '\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_'  
 )  
 if text == '':  
 game\_selection\_prompt()  
 else:  
 print('Please only press the ENTER key. Try again.')  
 game\_selection\_prompt()  
  
  
# Python decorator to connect URL endpoints with code contained in functions:  
@app.route('/PlayGame', methods=['POST', 'GET'])  
def play\_game():  
 #replit.clear()  
 print(Chapter\_0)  
 print('Press the ENTER key on your keyboard to continue...')  
 next\_chapter\_1()  
 next\_chapter\_2()  
 next\_chapter\_gsp()  
 return  
  
play\_game()  
  
# Defining the index.html as what should be executed if the URL endpoint is requested by a user:  
@app.route('/')  
def index():  
 return render\_template('index.html')  
  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 app.run(host='0.0.0.0', port=8080)

**Minigames\_Modules**

**Tic\_tac\_toe.py**

import emoji  
  
  
def main(args=None):  
  
 class Board:  
  
 def \_\_init\_\_(self):  
 self.cells = [" ", " ", " ", " ", " ", " ", " ", " ", " ", " "]  
  
 def display(self):  
 print(" %s | %s | %s " % (self.cells[1], self.cells[2], self.cells[3]))  
 print("\_\_\_\_\_\_\_\_\_\_\_")  
 print(" %s | %s | %s " % (self.cells[4], self.cells[5], self.cells[6]))  
 print("\_\_\_\_\_\_\_\_\_\_\_")  
 print(" %s | %s | %s " % (self.cells[7], self.cells[8], self.cells[9]))  
  
 def update\_cell(self, cell\_no, player):  
 if self.cells[cell\_no] == " ":  
 self.cells[cell\_no] = player  
 else:  
 print("Cell already filled")  
 refresh\_screen()  
  
 def is\_winner(self, player):  
 if self.cells[1] == player and self.cells[2] == player and self.cells[  
 3] == player:  
 return True  
 if self.cells[4] == player and self.cells[5] == player and self.cells[  
 6] == player:  
 return True  
 if self.cells[7] == player and self.cells[8] == player and self.cells[  
 9] == player:  
 return True  
 if self.cells[1] == player and self.cells[5] == player and self.cells[  
 9] == player:  
 return True  
 if self.cells[3] == player and self.cells[5] == player and self.cells[  
 7] == player:  
 return True  
 if self.cells[1] == player and self.cells[4] == player and self.cells[  
 7] == player:  
 return True  
 if self.cells[2] == player and self.cells[5] == player and self.cells[  
 8] == player:  
 return True  
 if self.cells[3] == player and self.cells[6] == player and self.cells[  
 9] == player:  
 return True  
  
 def reset(self):  
 self.cells = ["", "", "", "", "", "", "", "", "", ""]  
  
 def is\_tie(self):  
 used\_cells = 0  
 for cell in self.cells:  
 if cell != " ":  
 used\_cells += 1  
 if used\_cells == 9:  
 return True  
 else:  
 return False  
  
 board = Board()  
  
 def print\_header():  
 print("Welcome to tic-tac-toe\n")  
 print("Board data Structure\n")  
 print(" 1 | 2 | 3")  
 print("\_\_\_\_\_\_\_\_\_\_\_")  
 print(" 4 | 5 | 6")  
 print("\_\_\_\_\_\_\_\_\_\_\_")  
 print(" 7 | 8 | 9")  
  
 def refresh\_screen():  
 #show the board  
 board.display()  
   
   
 print\_header()  
  
   
 while True:  
   
 #get X input  
 x\_choice = int(input("\nPLAYER 1 (X)\nPlease choose a number between 1-9: "))  
   
 #update board  
 board.update\_cell(x\_choice, "X")  
 # check for X win  
 if board.is\_winner("X"):  
 print("\nPLAYER 1 (X) WINS!\n")  
 print(emoji.emojize(":grinning\_face\_with\_big\_eyes:"))  
 play\_again = input("Would like to play again? (Y/N)").upper()  
 if play\_again == "Y":  
 board.reset()  
 continue  
 else:  
 break  
   
 #get O input  
 o\_choice = int(input("\nPLAYER 2 (O)\nPlease choose a number between 1-9: "))  
  
 #update board  
 board.update\_cell(o\_choice, "O")  
 # check for O win  
 if board.is\_winner("O"):  
 print("\nPLAYER 2 (O) WINS!\n")  
 print(emoji.emojize(":grinning\_face\_with\_big\_eyes:"))  
 play\_again = input("Would like to play again? (Y/N)").upper()  
 if play\_again == "Y":  
 board.reset()  
 continue  
 else:  
 break  
  
 # check for a tie  
 if board.is\_tie():  
 print("\nTie game\n")  
 play\_again = input("Would like to play again? (Y/N)").upper()  
 if play\_again == "Y":  
 board.reset()  
 continue  
 else:  
 break  
  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 main()

**dice\_game.py**

# dice.py  
import random  
  
  
def main(args=None):  
 print("Welcome to the dice!")  
 print("-------------------------------------------------")  
 print("How many dice would you like to roll? \n")  
 # add validate input  
 while True:  
 try:  
 number\_input = int(input("Type a number between 1 and 10: "))  
 if (number\_input > 0 and number\_input <= 10):  
 break  
 else:  
 print("Invalid input. Try again.")  
  
 except:  
 print("Please provide an integer")  
  
   
 def rollDice(dice\_input):  
 totalSum = 0  
 possible\_facts = [1, 2, 3, 4, 5, 6]  
 for die in range(dice\_input):  
 roll = random.choice(possible\_facts)  
 print("Die ", die + 1, ": ", roll)  
 totalSum += roll  
 average = int(totalSum / dice\_input)  
 print("Total Sum ", totalSum)  
 print("Average roll: ", round(average))  
 return totalSum  
  
  
 # To make the game a two-player game:  
 num\_players = 2  
 scores = [0] \* num\_players  
 for player in range(num\_players):  
 if player == 1:  
 while True:  
 next\_roll = input('\nPress ENTER for the next player to roll the dice!')  
 if next\_roll == '':  
 break  
 print(f'\nPLAYER {player + 1}\'s turn:')  
 scores[player] = rollDice(number\_input)  
  
 # To determine the winner:  
 winner = scores.index(max(scores)) + 1  
 print('\n\n')  
 print(f'PLAYER {winner} WINS!')  
   
  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 main()

**dictionaries\_capitals\_quiz.py**

#!/usr/bin/env python  
# coding: utf-8  
  
# In[21]:  
  
#Must type in answer exactly as it appears in the dictionary  
  
import random  
import time  
import emoji  
  
  
def main(args=None):  
 dictionary = { #dictionary/key/value pairs for definitions  
 "Afghanistan": "Kabul",  
 "Australia": "Canberra",  
 "Belarus": "Minsk",  
 "England": "London",  
 "Chile": "Santiago",  
 "Sweden": "Stockholm"  
 }  
  
 print("Capitals Quiz. What is the Capital City...?")  
 print("\_" \* 39, "\n")  
  
 answer = input("Play game? ('Y' to continue) ")  
  
 print(" ")  
  
 while answer == "y":  
  
 keywords = list(dictionary.keys()) #turns words into a list  
  
 random.shuffle(keywords) #shuffle keywords  
 correct = 0  
 wrong = 0  
 for keyword in keywords:  
 display = "{}"  
 print("\n", display.format(keyword))  
 user\_answer = input("Your answer: ").capitalize()  
 time.sleep(1)  
 print("Correct answer:", dictionary[keyword])  
 print(" ")  
  
 if user\_answer == (dictionary[keyword]):  
 print("CORRECT")  
 print(emoji.emojize(":grinning\_face\_with\_big\_eyes:"))  
 correct += 1  
 else:  
 print("WRONG")  
 print("\N{pensive face}")  
 wrong += 1  
 print('\_' \* 25) #line separator  
  
 # final score  
 display\_score = "SCORE: {} correct and {} wrong"  
 print(display\_score.format(correct, wrong))  
 answer = input("Play again? ('Y' to continue) ")  
 print(" ")  
 print("Thanks for playing")  
  
 # In[ ]:  
  
 # In[ ]:  
  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 main()

**minesweeper3\_3.py**

#board user can NOT see (solution)  
import random  
import emoji  
  
  
# Resets the board in case Minesweeper is chosen to be played again  
def reset\_board():  
 global board  
 global boardDisplay  
 board = [  
 [0, 0, 0], # 0=no bomb  
 [0, 0, 0], #1=bomb  
 [0, 0, 0]  
 ]  
#board user can see  
 boardDisplay = [  
 [-1, -1, -1], #-1=Unknown  
 [-1, -1, -1],  
 [-1, -1, -1]  
 ]  
  
reset\_board()  
  
def main(args=None):  
 def check\_mines(row, col):  
 t = 0 #total mines around spot  
 i = row - 1  
 while i <= row + 1:  
 if i >= 0 and i < 3:  
 j = col - 1  
 while j <= col + 1:  
 if j >= 0 and j < 3:  
 t = t + board[i][j]  
 j = j + 1  
 i = i + 1  
 return t  
  
 # add mines  
  
 numMines = int(input("How many mines in the field?"))  
 num = 0 # num mines  
 while num < numMines:  
 row = random.randint(0, 2)  
 col = random.randint(0, 2)  
 if board[row][col] == 0:  
 board[row][col] = 1 # add mine  
 num = num + 1  
  
 def display\_solution():  
 for row in range(0, 3):  
 for col in range(0, 3):  
 print(board[row][col], end=" ")  
 print("")  
  
 def display\_board():  
 print("-" \* 10)  
 for row in range(0, 3):  
 print("| ", end="")  
 for col in range(0, 3):  
 if boardDisplay[row][col] == -1:  
 print(" ", end="| ")  
 else:  
 print(board[row][col], end="|")  
 print(" ")  
 print("-" \* 10)  
  
 #display\_solution()  
 display\_board()  
  
 guess = 0  
 while True:  
 try:  
 if guess < (9 - numMines):  
 row = int(input("Guess a row (1-3): ")) - 1  
 col = int(input("Guess a col (1-3): ")) - 1  
 if board[row][col] == 1:  
 print("BOOOMmmm!!! You hit a mine.")  
 print("\N{face with head-bandage}")  
 else:  
 boardDisplay[row][col] = check\_mines(row, col)  
 display\_board()  
 print(emoji.emojize(":grinning\_face\_with\_big\_eyes:"))  
 guess = guess + 1  
 else:  
 print("You are out of guesses")  
 display\_solution()  
 reset\_board()  
 break  
 except:  
 print("Enter a guess within range")  
  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 try:  
 main()  
 except KeyboardInterrupt:  
 print('\nEnd of Game. Bye Bye!')