Name - Gaurav Kumar

Department - Computer Science and Engineering

Year - 4th

Section - B

Class Roll - 1751132

Autonomous Roll No - 12617001053

Training Highlights

- **Platform -** Internshala
- **Training -** Programming with Python
- **Final Score -** 100%
- **Duration -** 6 weeks
- **Date of completion** – 31-05-2020

Training Syllabus -

- Introduction to Python
- Using Variables in Python
- Basics of Programming in Python
- Principles of Object-oriented Programming (OOP)
- Connecting to SQLite Database
- Developing a GUI with PyQT
- Application of Python in Various Disciplines

Introduction to Python

1. Training Overview：
   - Installation of Python
   - Using the Python Interpreter IDLE
2. Salient Features of Python
   - Basic Syntax of Python

Data Types in Python

- Data Types and Variables
- Numeric Data Types
- Sequence Data Type
- Boolean Data Type
- String Data Type
- Set Data Type
- Dictionary Data Type

Basics of Programming in Python

- Understanding Programs and Programming
- Using Conditionals
- Using Loops
- Using Functions
- Using Functions from Built-in Modules
- Constructing Modules and Packages

Principles of OOP

- Overview of OOP
- Declaring Class and Creating Objects
- Understanding Inheritance
- Using Magic Methods

Connecting to SQLite Database

- Introduction to SQL
- Creating a SQLite database
- Accessing SQLite Database through Python

Developing a GUI with PyQt

- GUI and Event Driven Programming
- Qt Designer
- Layout Managers
- Using Common Widgets
- Designing a Menu System

Application of Python

- Web Development
- Game Development
- Scientific and Numeric Applications
- Artificial Intelligence and Machine Learning
- Software Development
- Enterprise-level/Business Applications

Final Project : Problem statement and rules

Problem Statement

Create a Fantasy Cricket game in Python. The game should have all the features displayed in the mock-up screens in the scenario. To calculate the points for each player, you can use rules similar to the sample rules displayed below.

Sample of Rules

Batting

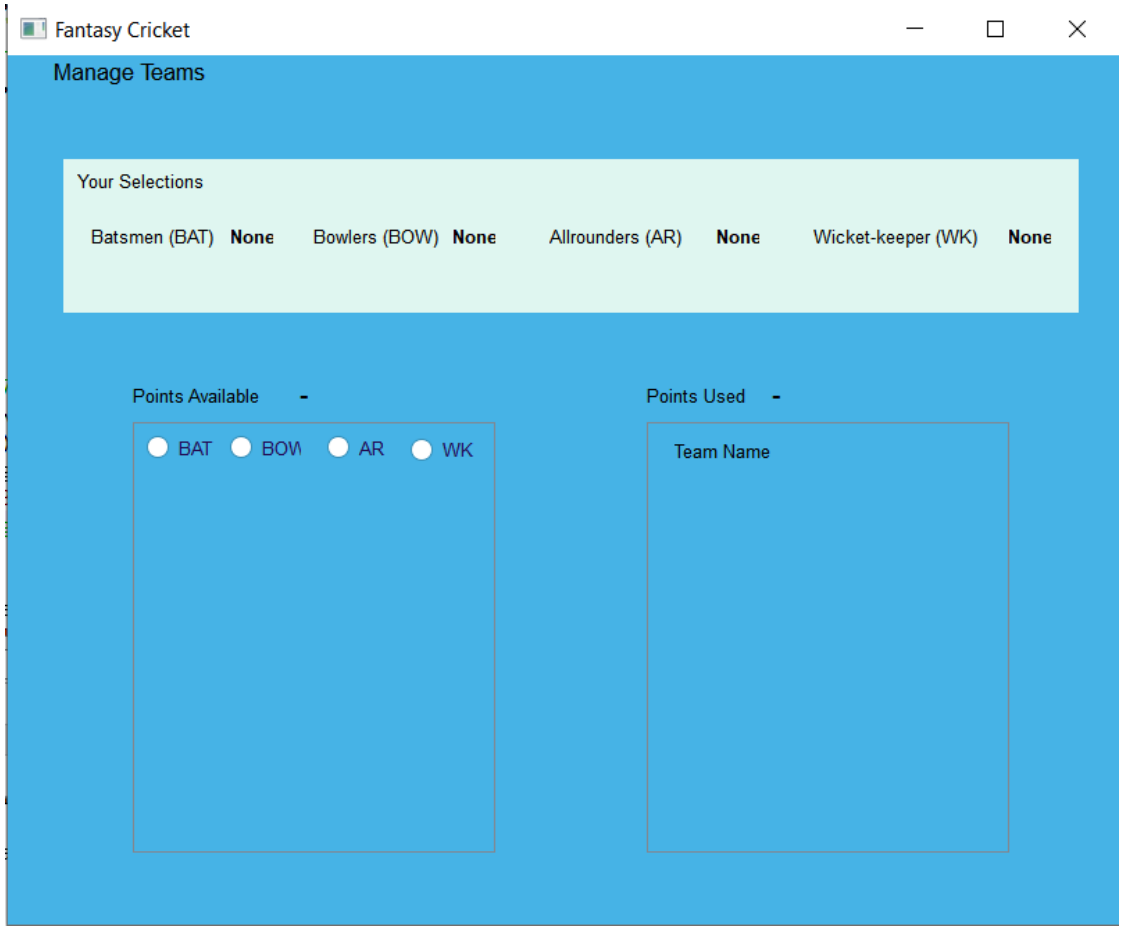
- 1 point for 2 runs scored
- Additional 5 points for half century
- Additional 10 points for century
- 2 points for strike rate (runs/balls faced) of 80-100
- Additional 4 points for strike rate>100
- 1 point for hitting a boundary (four) and 2 points for over boundary (six)

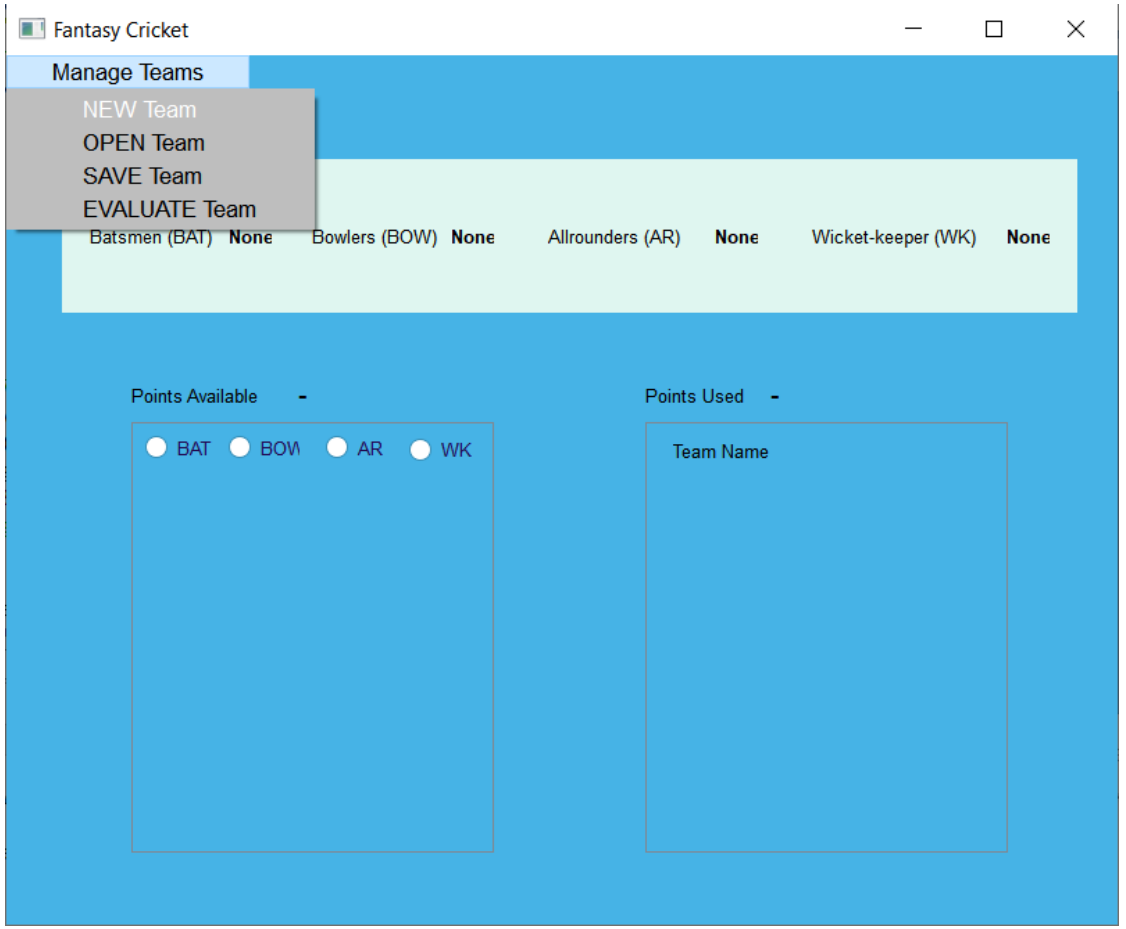
Bowling

- 10 points for each wicket
- Additional 5 points for three wickets per innings
- Additional 10 points for 5 wickets or more in innings
- 4 points for economy rate (runs given per over) between 3.5 and 4.5
- 7 points for economy rate between 2 and 3.5
- 10 points for economy rate less than 2

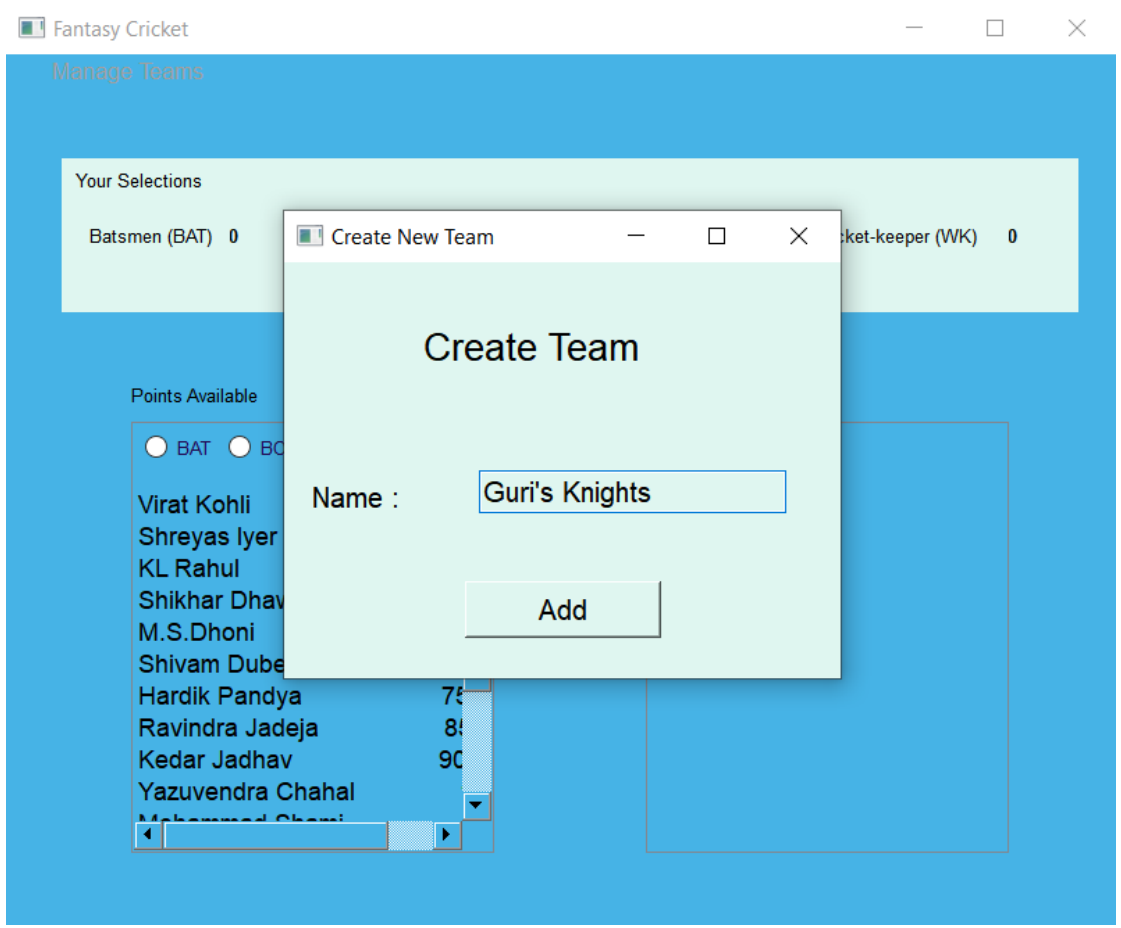
Fielding

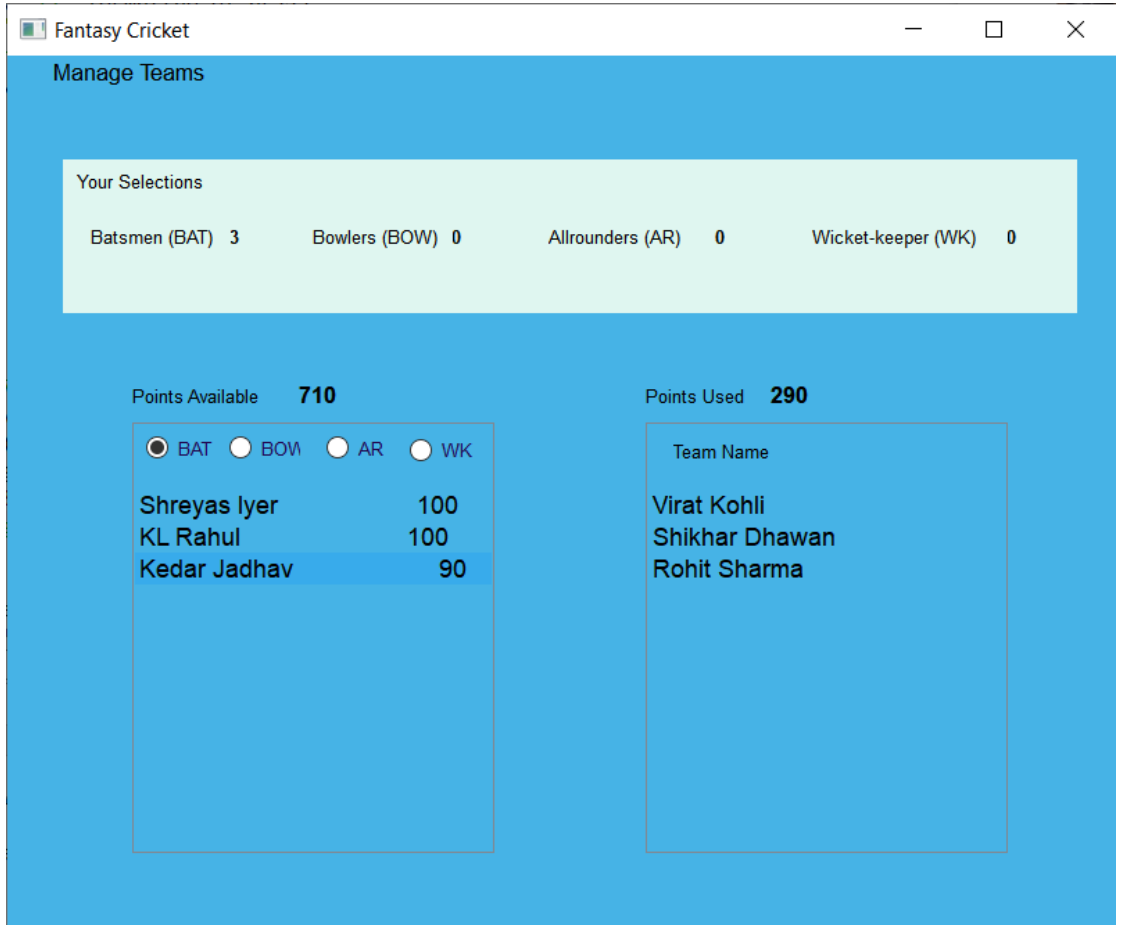
- 10 points each for catch/stumping/run out



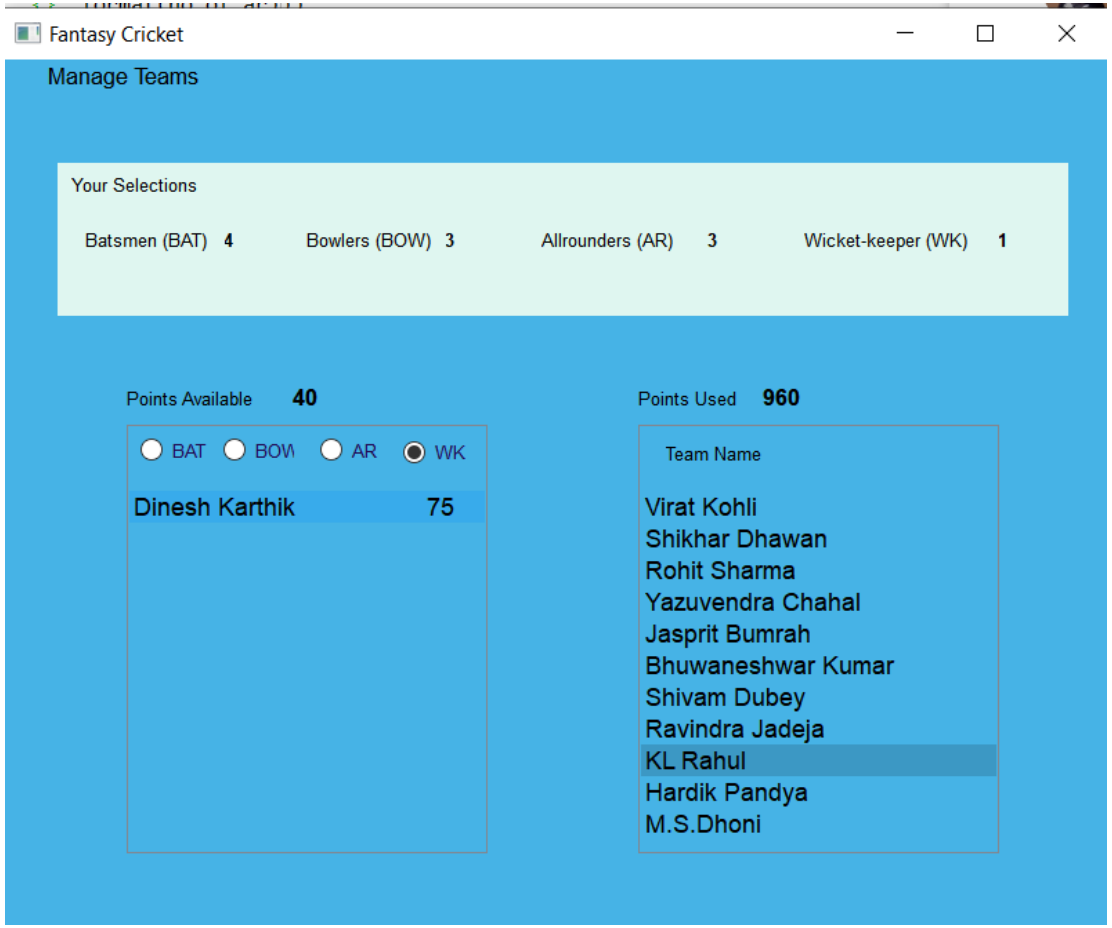


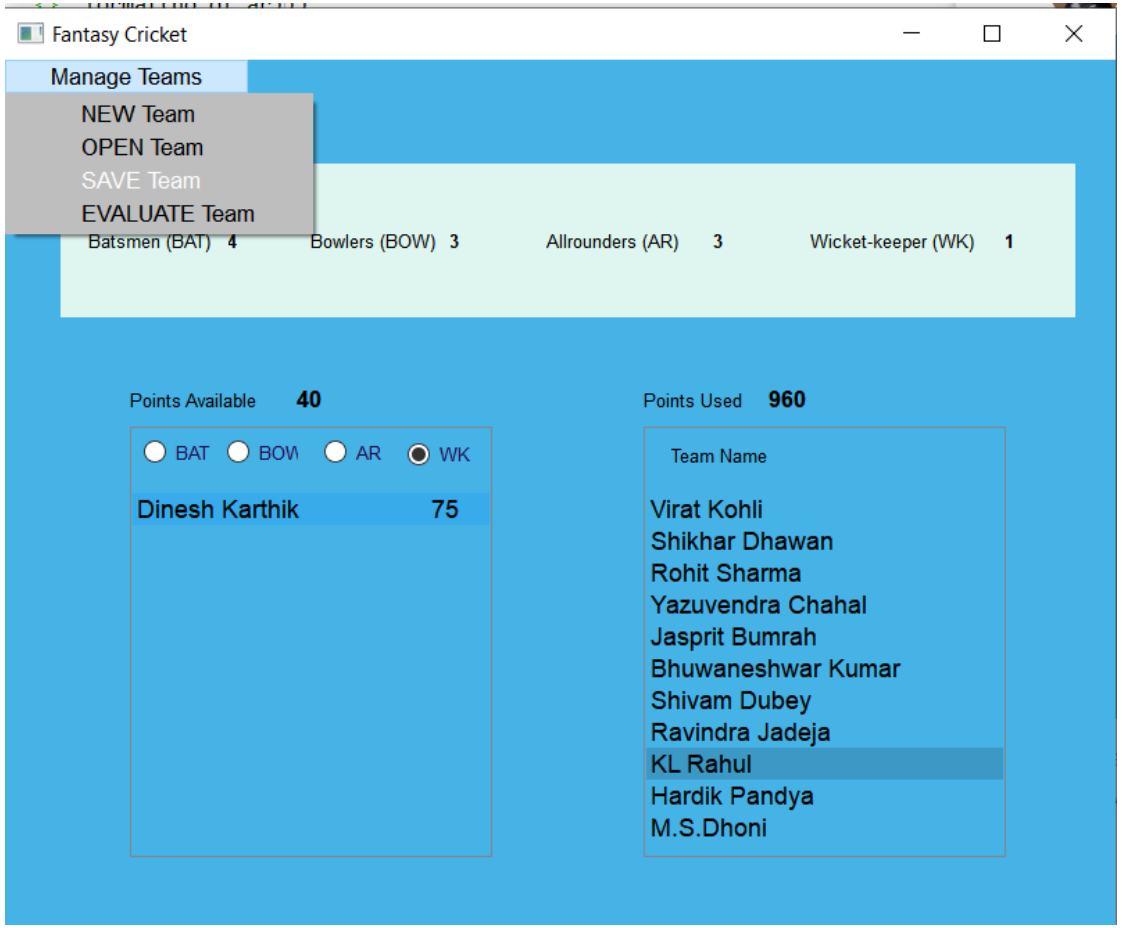
Final Project : Ui Design(Part 1)



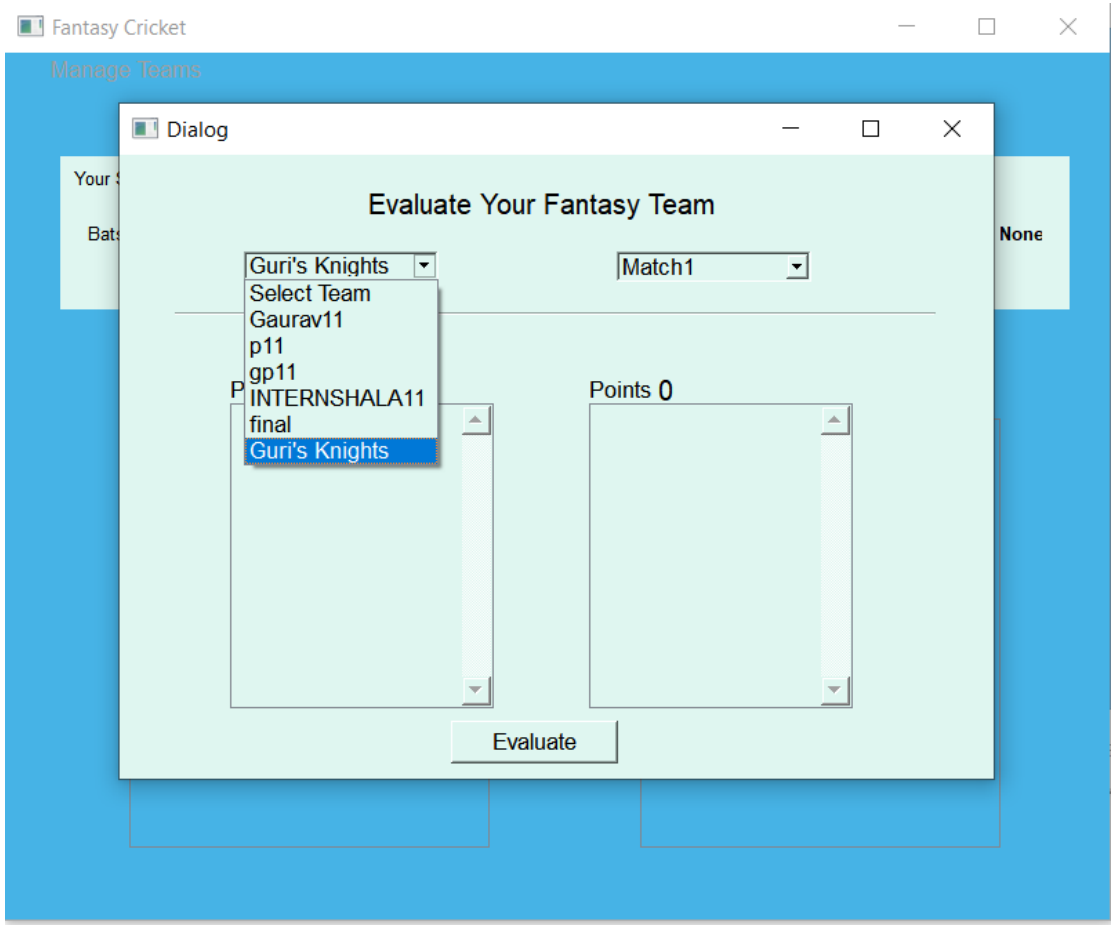


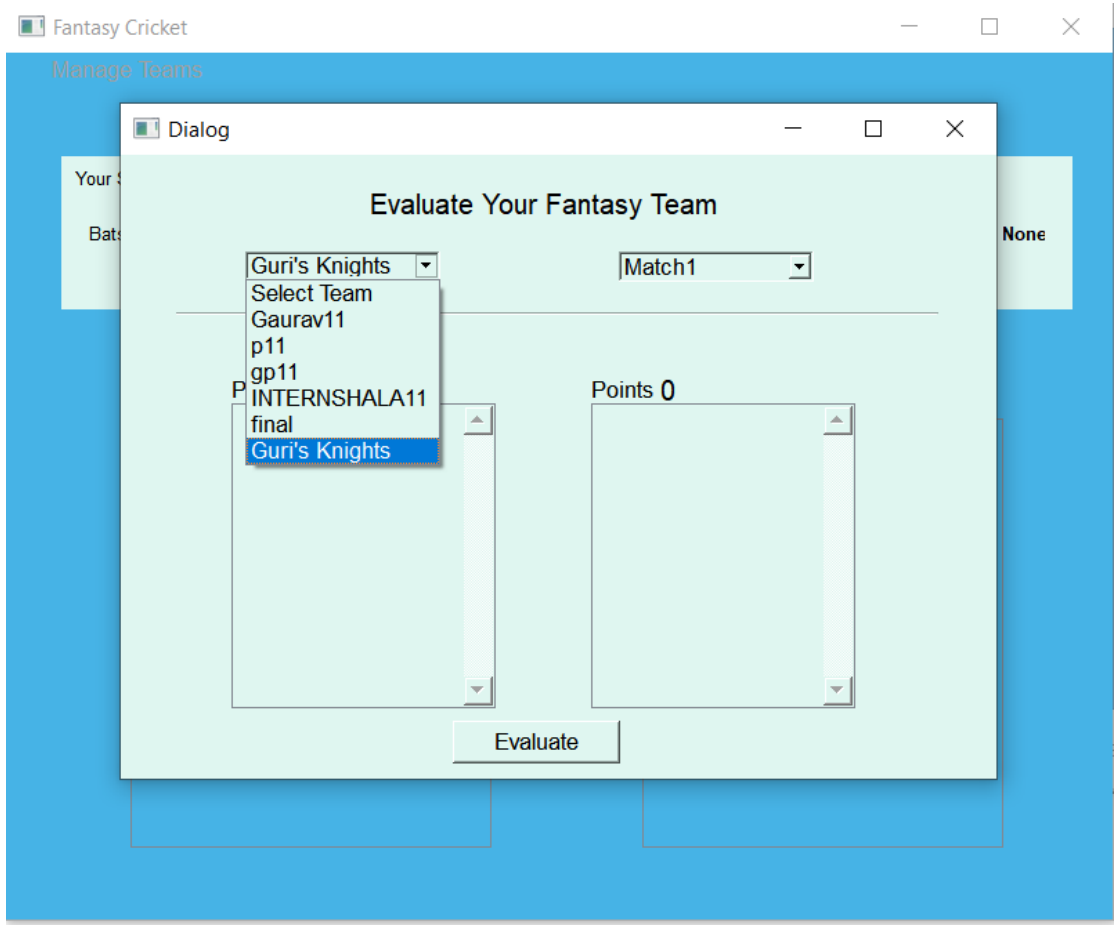
Final Project : Ui Design(Part 2)





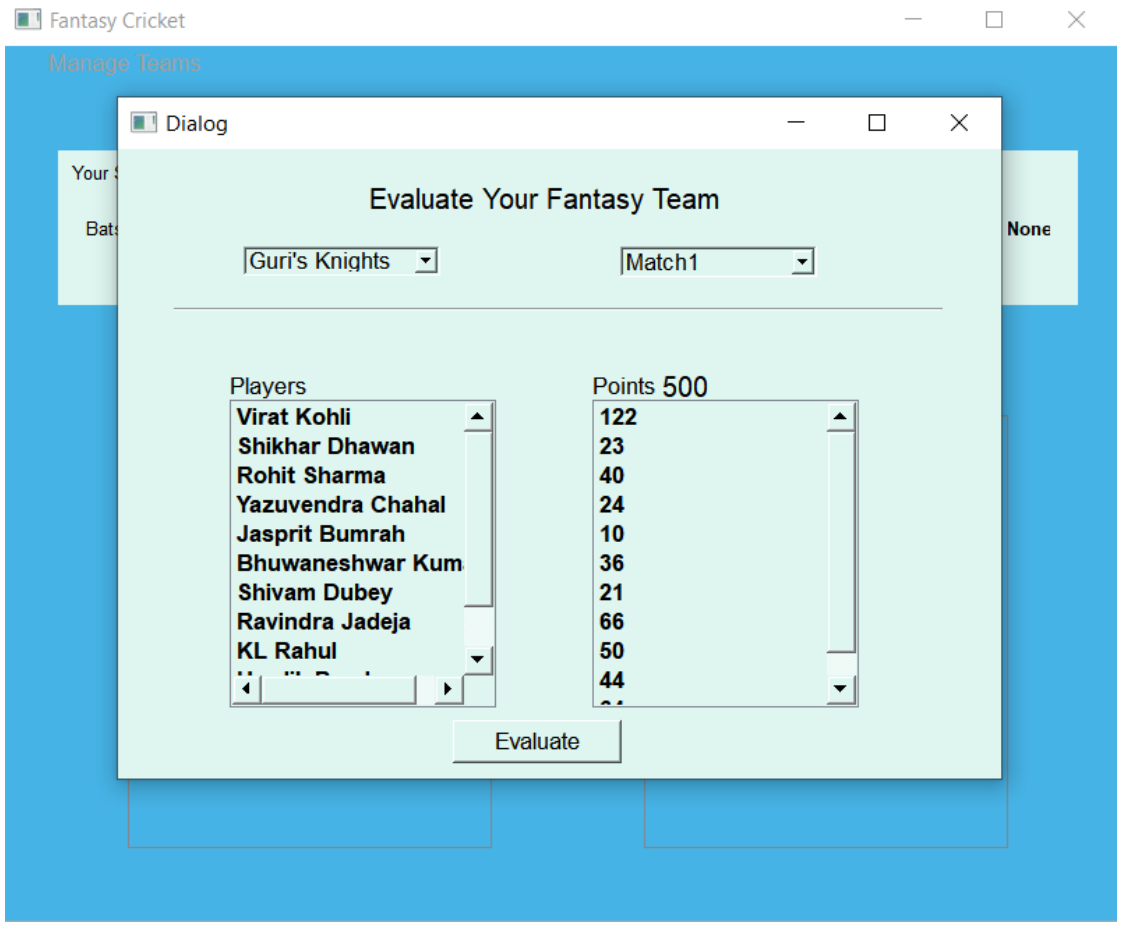
Final Project : Ui Design(Part 3)



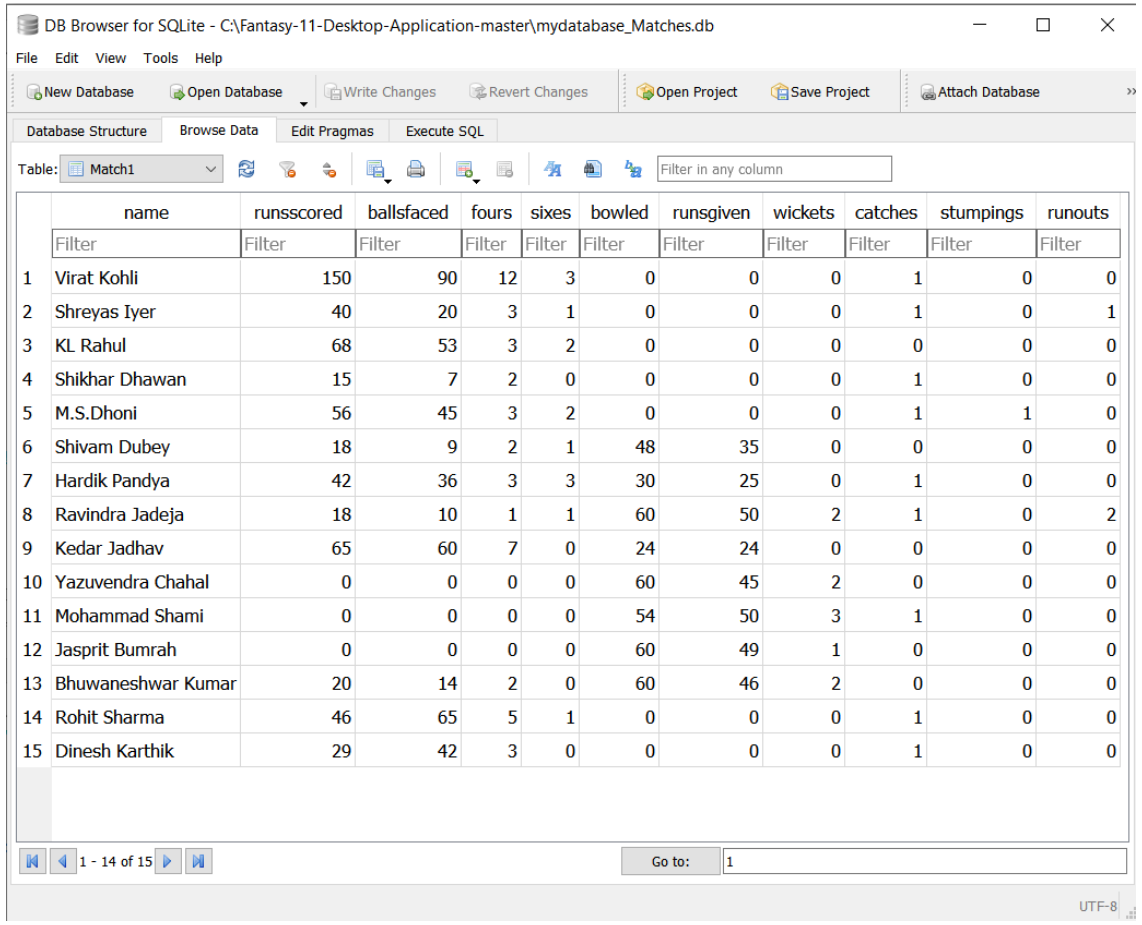


Final Project : Ui Design(Part 4)

Final Project : Ui Design(Part 5)



Final Project : Database Design (Part 1)



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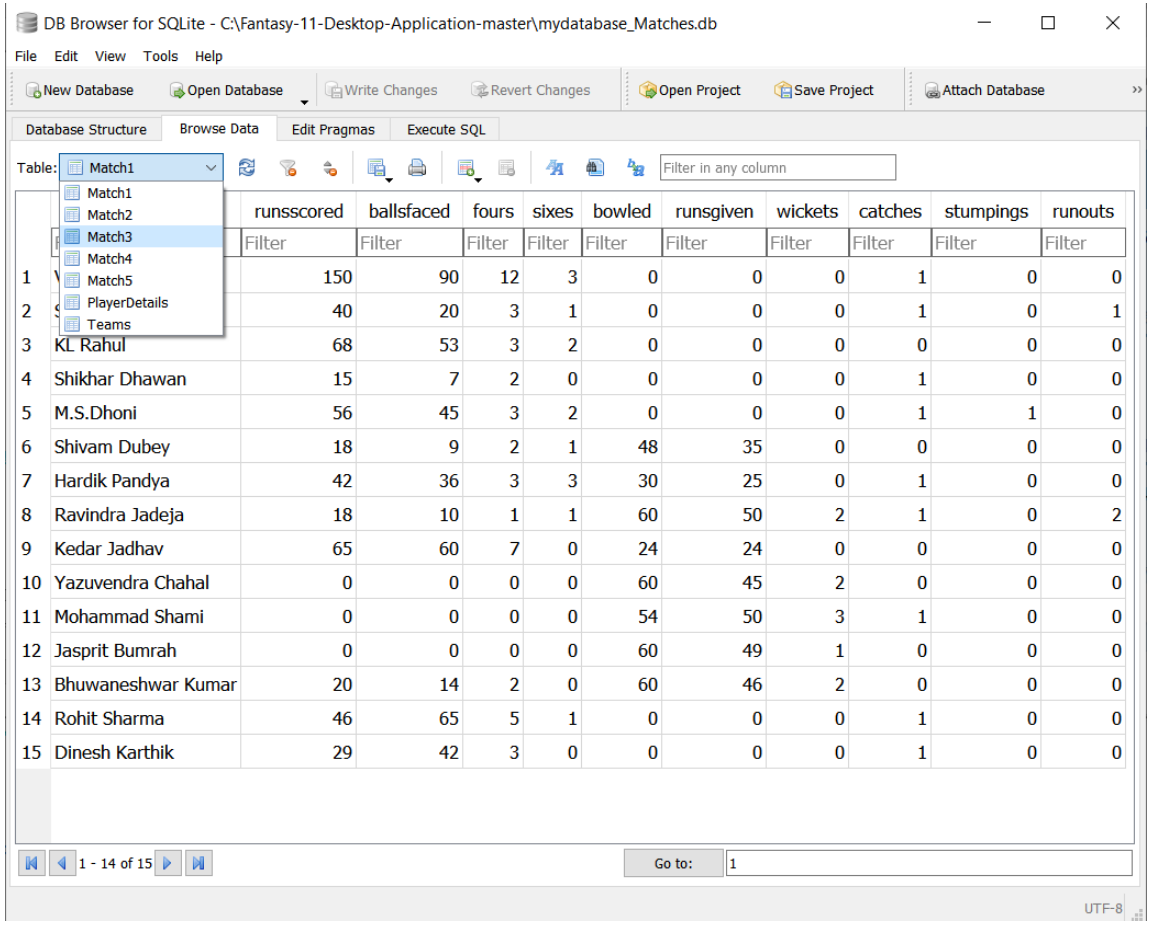
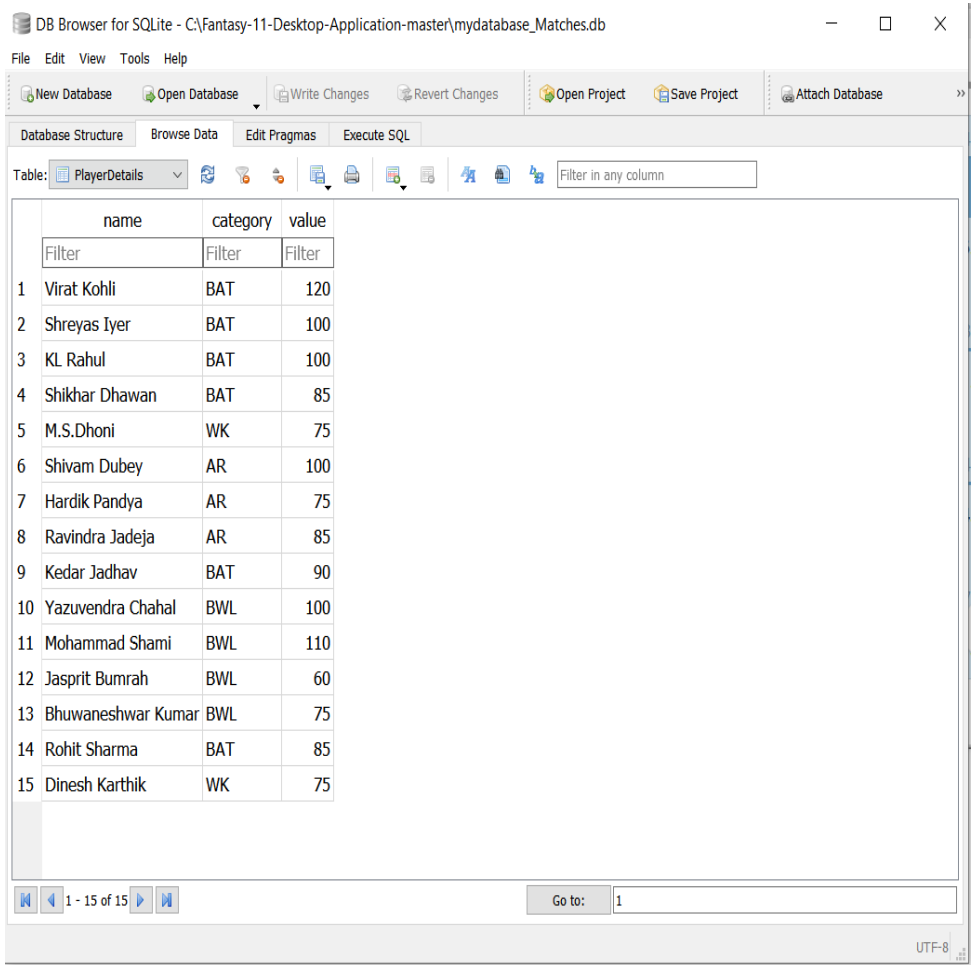
1	Virat Kohli	150	90	12	3	0	0	0	1	0	0
2	Shreyas Iyer	40	20	3	1	0	0	0	1	0	1
3	KL Rahul	68	53	3	2	0	0	0	0	0	0
4	Shikhar Dhawan	15	7	2	0	0	0	0	1	0	0
5	M.S.Dhoni	56	45	3	2	0	0	0	1	1	0
6	Shivam Dubey	18	9	2	1	48	35	0	0	0	0
7	Hardik Pandya	42	36	3	3	30	25	0	1	0	0
8	Ravindra Jadeja	18	10	1	1	60	50	2	1	0	2
9	Kedar Jadhav	65	60	7	0	24	24	0	0	0	0
10	Yazuvendra Chahal	0	0	0	0	60	45	2	0	0	0
11	Mohammad Shami	0	0	0	0	54	50	3	1	0	0
12	Jasprit Bumrah	0	0	0	0	60	49	1	0	0	0
13	Bhuwaneshwar Kumar	20	14	2	0	60	46	2	0	0	0
14	Rohit Sharma	46	65	5	1	0	0	0	1	0	0
15	Dinesh Karthik	29	42	3	0	0	0	0	1	0	0



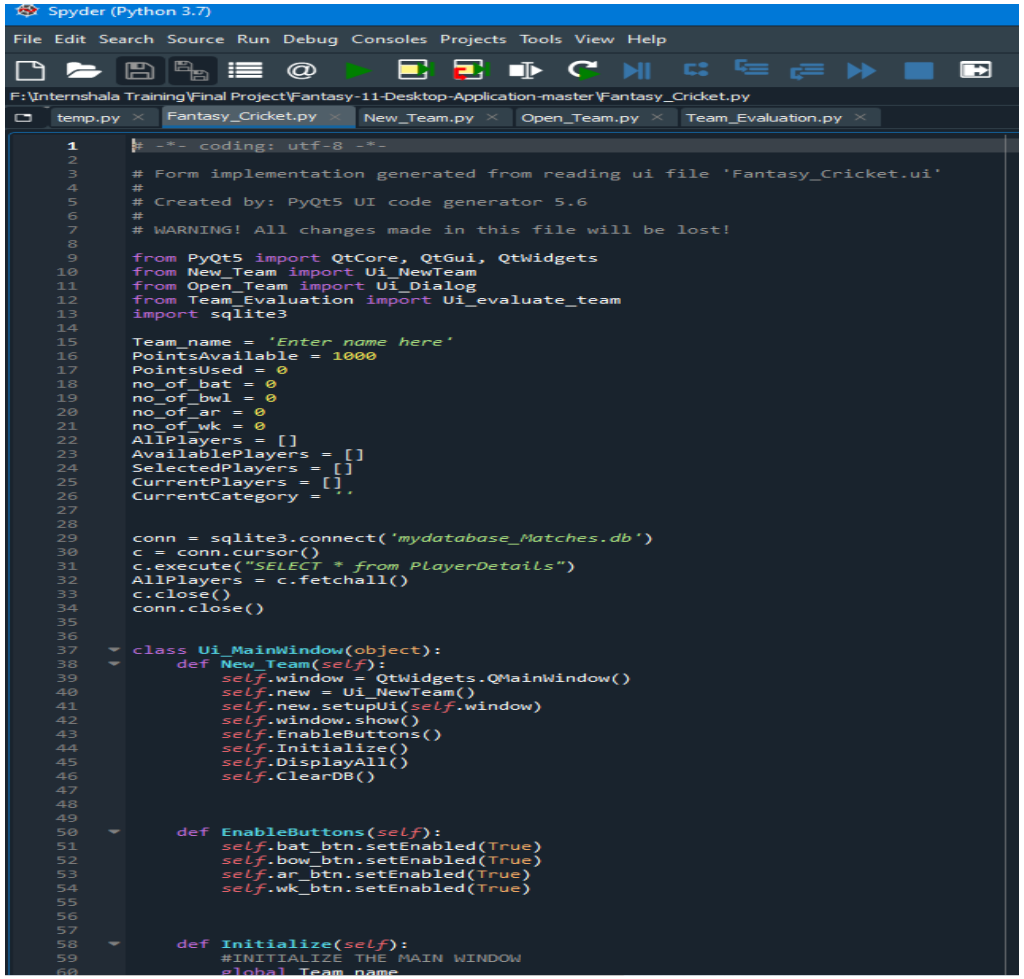
		runsscored	ballsfaced	fours	sixes	bowled	runsgiven	wickets	catches	stumpings	runouts
1	V	150	90	12	3	0	0	0	1	0	0
2	S	40	20	3	1	0	0	0	1	0	1
3	KL Rahul	68	53	3	2	0	0	0	0	0	0
4	Shikhar Dhawan	15	7	2	0	0	0	0	1	0	0
5	M.S.Dhoni	56	45	3	2	0	0	0	1	1	0
6	Shivam Dubey	18	9	2	1	48	35	0	0	0	0
7	Hardik Pandya	42	36	3	3	30	25	0	1	0	0
8	Ravindra Jadeja	18	10	1	1	60	50	2	1	0	2
9	Kedar Jadhav	65	60	7	0	24	24	0	0	0	0
10	Yazuvendra Chahal	0	0	0	0	60	45	2	0	0	0
11	Mohammad Shami	0	0	0	0	54	50	3	1	0	0
12	Jasprit Bumrah	0	0	0	0	60	49	1	0	0	0
13	Bhuwaneshwar Kumar	20	14	2	0	60	46	2	0	0	0
14	Rohit Sharma	46	65	5	1	0	0	0	1	0	0
15	Dinesh Karthik	29	42	3	0	0	0	0	1	0	0

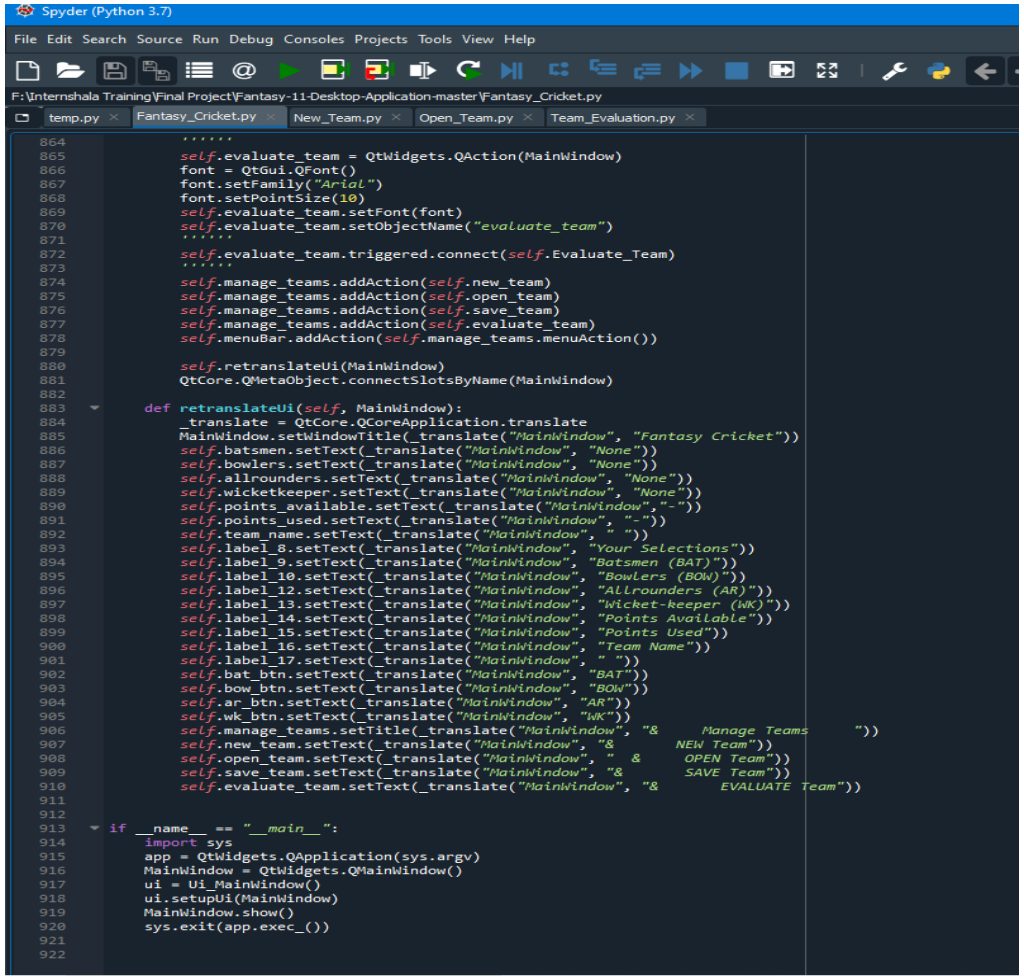
Final Project : Database Design (Part 2)



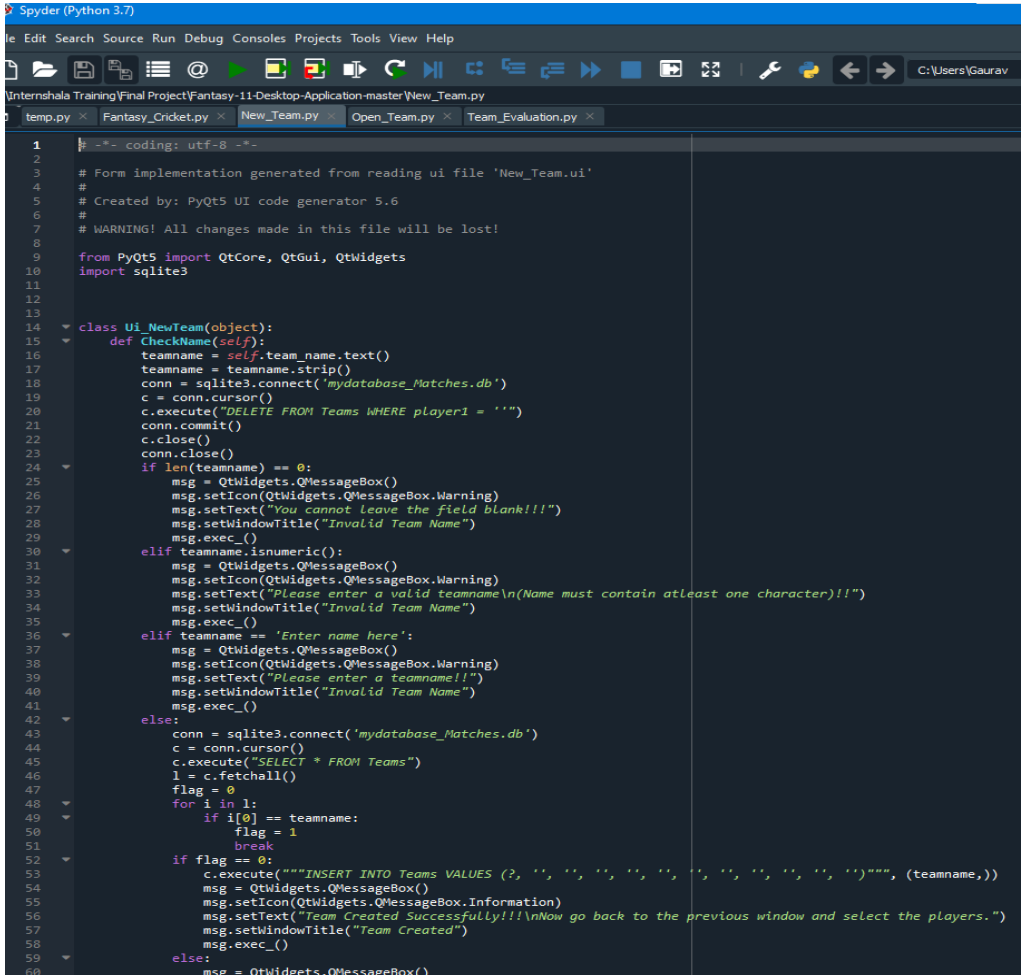
	name	category	value
	Filter	Filter	Filter
1	Virat Kohli	BAT	120
2	Shreyas Iyer	BAT	100
3	KL Rahul	BAT	100
4	Shikhar Dhawan	BAT	85
5	M.S.Dhoni	WK	75
6	Shivam Dubey	AR	100
7	Hardik Pandya	AR	75
8	Ravindra Jadeja	AR	85
9	Kedar Jadhav	BAT	90
10	Yazuvendra Chahal	BWL	100
11	Mohammad Shami	BWL	110
12	Jasprit Bumrah	BWL	60
13	Bhuwaneshwar Kumar	BWL	75
14	Rohit Sharma	BAT	85
15	Dinesh Karthik	WK	75

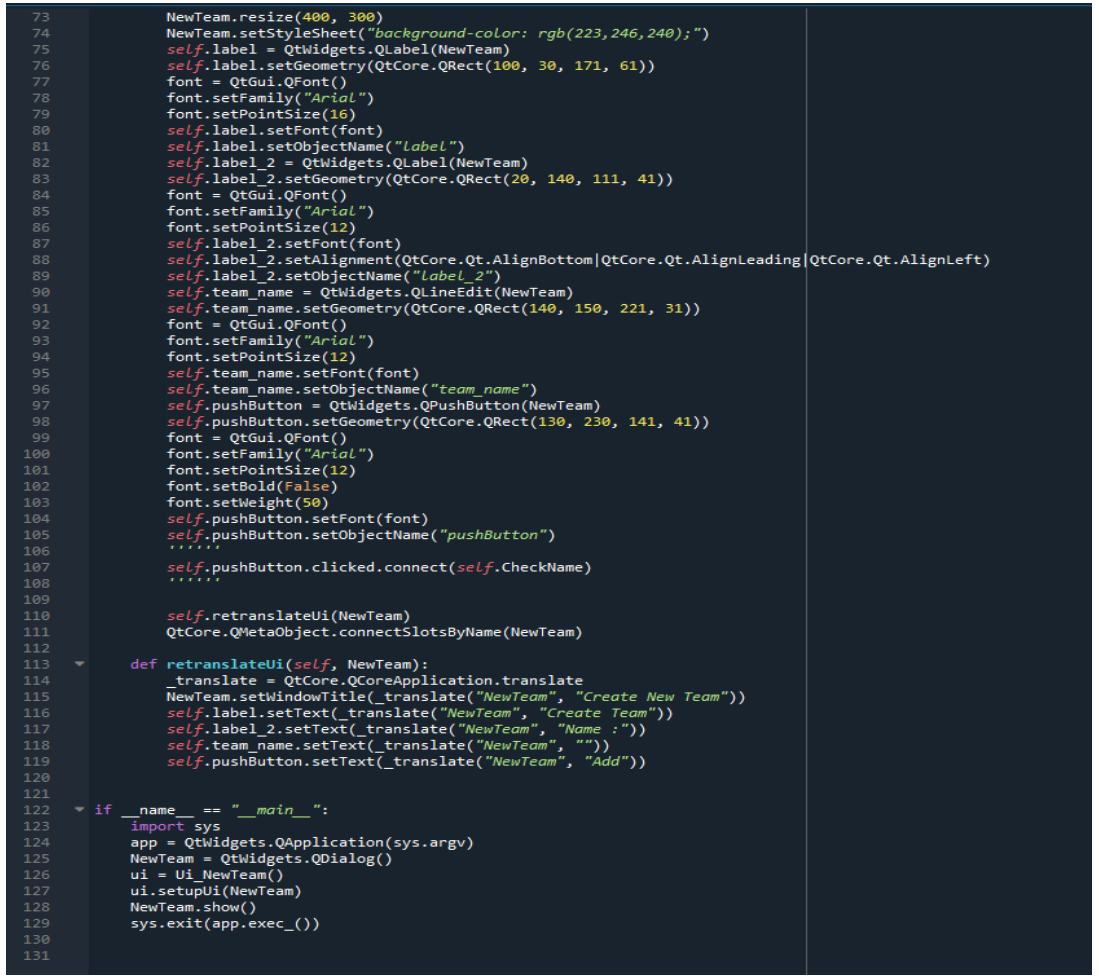
	teamname	player1	player2	player3	player4	player5	player6	player7	player8	player9	player10	player11
	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	Gaurav11	Virat Kohli	Shreyas Iyer	KL Rahul	Shikhar Dhawan	M.S.Dhoni	Shivam Dubey	Yazuvendra Chahal	Mohammad Shami	Jasprit Bumrah	Hardik Pandya	Bhuwaneshwar Kumar
2	p11	Shikhar Dhawan	M.S.Dhoni	Shivam Dubey	Hardik Pandya	Ravindra Jadeja	Yazuvendra Chahal	Mohammad Shami	Shreyas Iyer	Kedar Jadhav	Jasprit Bumrah	Bhuwaneshwar Kumar
3	gp11	Virat Kohli	Shreyas Iyer	KL Rahul	Shikhar Dhawan	M.S.Dhoni	Shivam Dubey	Hardik Pandya	Ravindra Jadeja	Mohammad Shami	Jasprit Bumrah	Bhuwaneshwar Kumar
4	INTERNSHALA11	Shreyas Iyer	KL Rahul	Shikhar Dhawan	M.S.Dhoni	Shivam Dubey	Hardik Pandya	Ravindra Jadeja	Yazuvendra Chahal	Mohammad Shami	Jasprit Bumrah	Bhuwaneshwar Kumar
5	final	Virat Kohli	Shreyas Iyer	KL Rahul	Shikhar Dhawan	M.S.Dhoni	Shivam Dubey	Hardik Pandya	Bhuwaneshwar Kumar	Jasprit Bumrah	Mohammad Shami	Yazuvendra Chahal
6	Guri's Knights	Virat Kohli	Shikhar Dhawan	Rohit Sharma	Yazuvendra Chahal	Jasprit Bumrah	Bhuwaneshwar Kumar	Shivam Dubey	Ravindra Jadeja	KL Rahul	Hardik Pandya	M.S.Dhoni



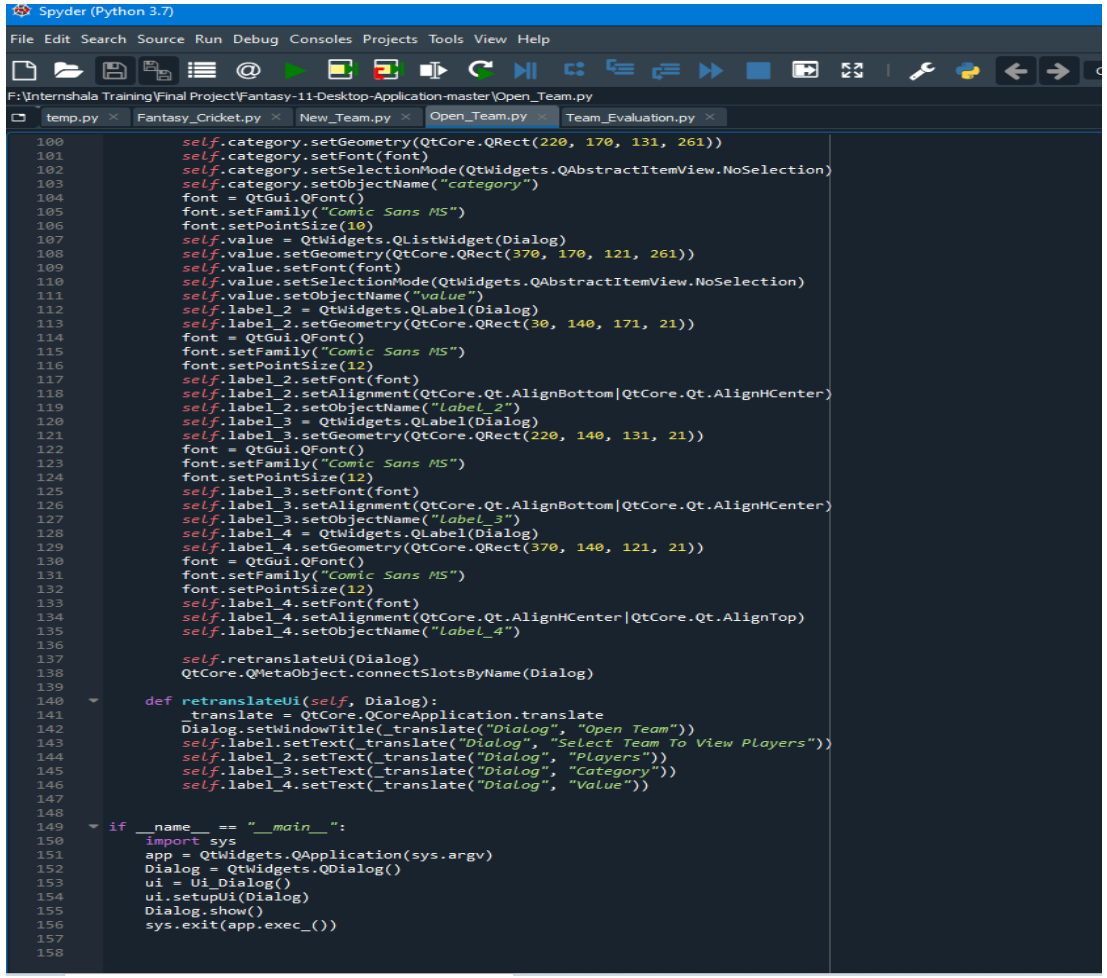


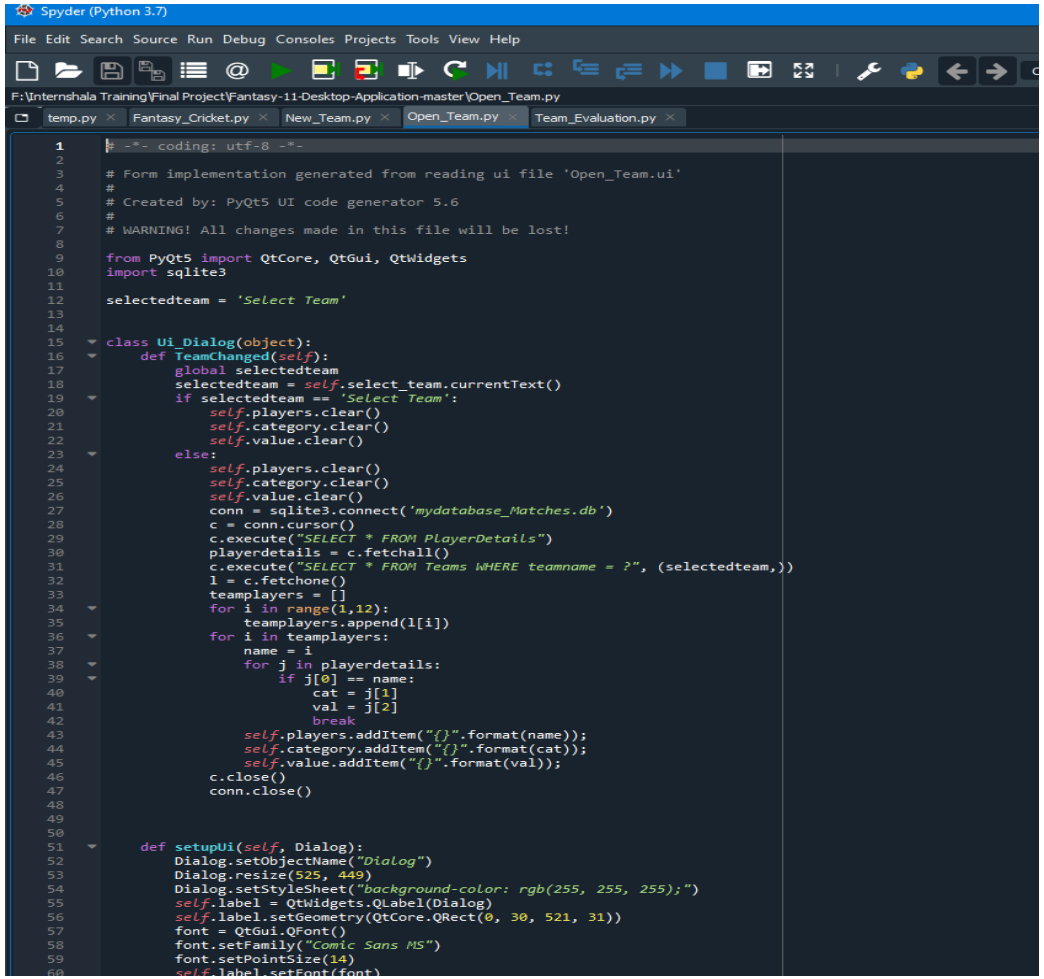
Final Project : Code Snippet(Part 1)



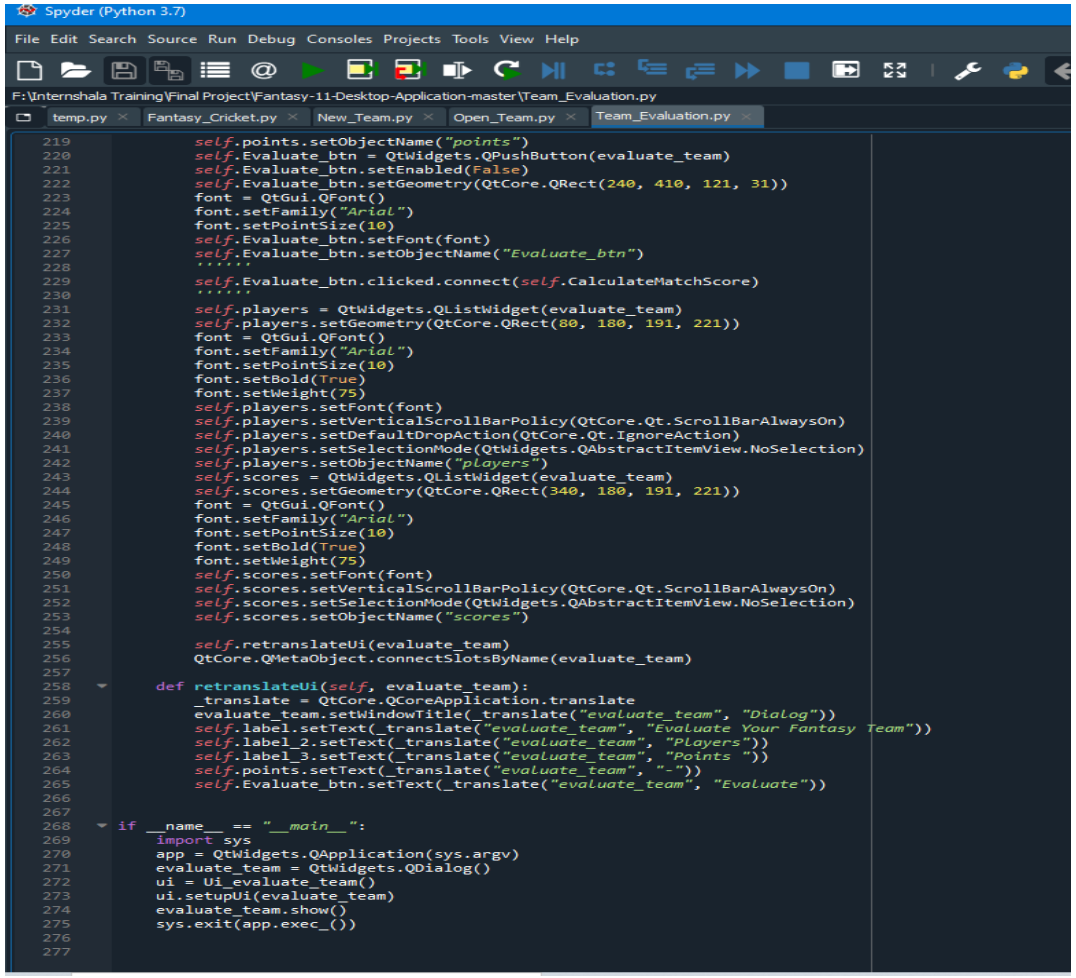


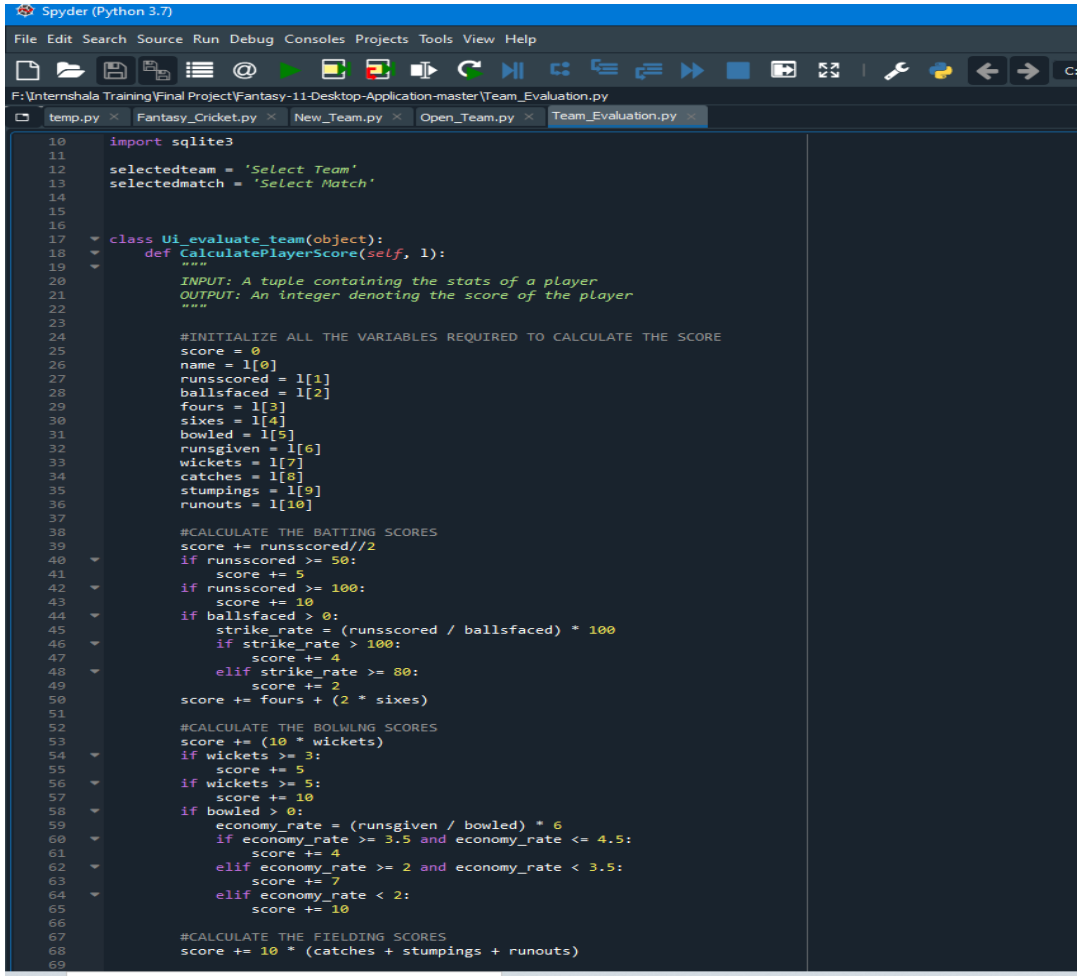
Final Project : Code Snippet(Part 2)





Final Project : Code Snippet(Part 3)





Final Project : Code Snippet(Part 4)

Certificate of completion

INTERNSHALA TRAININGS

Certificate of Training

Gaurav Kumar

from **Heritage Institute of Technology** has successfully completed a six weeks online training on **Programming with Python** from 19th April, 2020 to 31st May, 2020. The training consisted of Introduction to Python, Using Variables in Python, Basics of Programming in Python, Principles of Object-oriented Programming (OOP), Connecting to SQLite Database, Developing a GUI with PyQT and Application of Python in Various Disciplines modules. Gaurav scored 100% marks in the final assessment and is a top performer in the training. We wish Gaurav all the best for the future.

Sarvesh Agrawal
Founder & CEO, Internshala

Date of certification: 2020-05-21 Certificate no. : 93C6E363-B5E1-871E-63B2-F91468D4D0FD

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

INTERNSHALA

References

- Providing Github Link For Detailed Codes : Fantasy11 - Desktop Application
- Training Resources : Programming with python

Thank You