

SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN  
BATCH NO - 16

YAHTZEE

May 4,2021

# PROBLEM STATEMENT







- Yahtzee is a dice game based on Poker. The objective of the game is to roll certain combinations of numbers with five dice. At each turn you throw dice trying to get a good combination of numbers. Different combinations give different scores.

# UNDERSTANDING

- One of player will be chosen as start player. He will roll all the 5 dices at the same time. After rolling he can go for re-rolling or scoring.
- For scoring there are 2 sections:
  - ① Upper section
  - ② Lower section

# Score Board

**Yahtzee**® Name \_\_\_\_\_

UPPER SECTION		HOW TO SCORE	GAME #1	GAME #2	GAME #3	GAME #4	GAME #5	GAME #6
<b>Aces</b>	 = 1	Count and Add Only Aces						
<b>Twos</b>	 = 2	Count and Add Only Twos						
<b>Threes</b>	 = 3	Count and Add Only Threes						
<b>Fours</b>	 = 4	Count and Add Only Fours						
<b>Fives</b>	 = 5	Count and Add Only Fives						
<b>Sixes</b>	 = 6	Count and Add Only Sixes						
<b>TOTAL SCORE</b>		→						
<b>BONUS</b> If total score is 63 or over		SCORE 35						
<b>TOTAL</b> Of Upper Section		→						
<b>LOWER SECTION</b>								
<b>3 of a kind</b>		Add Total Of All Dice						
<b>4 of a kind</b>		Add Total Of All Dice						
<b>Full House</b>		SCORE 25						
Sm. Straight	Sequence of 4	SCORE 30						
Lg. Straight	Sequence of 5	SCORE 40						
<b>YAHTZEE</b> 5 of a kind		SCORE 50						
<b>Chance</b>		Score Total Of All 5 Dice						
<b>YAHTZEE BONUS</b>		✓ FOR EACH BONUS						
		SCORE 100 PER ✓						

<https://images.sampletemplates.com/wp-content/uploads/2015/09/Yahtzee-Score-Pads-Printable.jpg>

# APPROACH

- Task 1 : Displaying the instructions of the Game.
- Task 2 : Rolling the Dices.
- Task 3 : Selecting the dices to re-roll.
- Task 4 : Scoring.

# TECHNICAL STACKS

- VIM Editor
- Git lab
- LaTeX
- Ubuntu
- Tex maker
- Python 3.9

# LEARNINGS

- Working on LaTeX Environment.
- Working on VIM Editor
- Working on Dual OS
- Working on Git Lab

# PROGRESS

- Created a public repository in GitLab.
- Displaying instructions to the user.
- Created a function to roll the 5 dices.
- Created functions used for calculating score in upper section



# TASK-1

For further references see [https://gitlab.com/unitedcoders/yahtzee\\_python/-/tree/master](https://gitlab.com/unitedcoders/yahtzee_python/-/tree/master)

# OUTPUT

```
The Scores for each category :

1.Upper Section :
-->Ones(1): Score will be sum of all one's
-->Twos(2): Score will be sum of all two's
-->Threes(3): Score will be sum of all three's
-->Fours(4): Score will be sum of all four's
-->Fives(5): Score will be sum of all five's
-->Sixs(6): Score will be sum of all six's
-->Bonus : (If the total score of the upper part is greater or equal to 63)
Bonus of be 35 points is added.

2.Lower Section :
-->3 of a kind(3x): (if the dice show at least 3 of the same number)
Score will be total of all dices
-->4 of a kind(4x): (if the dice show at least 4 of the same number)
Score will be total of all dices
-->Full House(f): (if 3 dices show the same number and other two should show same number)
Score will be 25 points
-->Small Straight(s): (if any sequence of four numbers)
Score will be 30 points
-->Large Straight(l): (if any sequence of five numbers)
Score will be 40 points
-->YAHTZEE(y): (if 5 are same number)
Score will be 50 points
-->Chance(c):
Score will be total of all dices
-->Yahtzee Bonus(yb): (From the 2nd Yahtzee in the same game)
Bonus of 100 points are added for each Yahtzee.

The dices rolls are: 3 1 3 5 6

sum_of_ones = 1
sum_of_twos = 0
sum_of_threes = 6
sum_of_fours = 0
sum_of_fives = 5
sum_of_sixes = 6
```

# TEAM MEMBERS

- 19B01A0556 - J.Greeshma(TL)
- 19B01A0470 - K.Vijaya Durga
- 19B01A0483 - K.Vennela
- 19B01A1271 - M.Apoorva
- 19B01A0572 - K.Bindu Sri Nagavalli
- 19B01A05F3 - P.Meghana Sri Manvitha

THANK YOU