

The Lottery Game

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.....
:          $$$  LOTTERY  $$$          :
.....
:  $$Put your luck on trial and win cash$$  :
.....

```

Flow of Events:

- When user runs the program, user will be provided with an Output window showing the rules of the game.
- **Starting the game:**
 - Step 1: The user is asked to enter their name.
 - Step 2: Then the user must choose one number from (20-30) and enter on the console.
 - Step 3: Then the user is then asked to enter another number from (10-20).
 - Step 4: The user is then asked to enter a number from (30-40).

```

|          How to play??          |
|
|Step 1: Choose 3 numbers for your lotto ticket.|
|Step 2: Random number generator will generate 9|
|          numbers. If your ticket has the number |
|          then you will win cash.                |
|Step 3: 1 win is equal to $50.                  |
|Step 4: 1 ticket costs $10.                     |
|Step 5: You can play again by entering 'y'.      |
|
|
Enter your name: Deepmala
Enter a number (20 - 30): 27
Enter a number (10 - 20): 11
Enter a number (30 - 40): 32

```

- The lotto ticket is made up of user's chosen numbers. The lotto ticket is then displayed.
- The program randomly generates nine numbers. Each random number is compared with user input numbers and displayed.
- **Determining a win:**
 - If any of the randomly generated numbers match with any of user inputs, then it is counted as a win. A "Congratulations" message is displayed.
 - For each match/win, a prize of \$50 is awarded.
 - Else if none of the random numbers match with user inputs, the player does not win. A "Better luck next time" message is displayed.
- Once all nine numbers are displayed, the total cash won by the player is displayed along with the price that the player must pay for the ticket.

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+-----+
Your lotto ticket is 27 11 32.
+-----+

Randomly Generated number:    29
Randomly Generated number:    33
Randomly Generated number:    25
Randomly Generated number:    27

*****
*   Congratulations!!   *
*****

Randomly Generated number:    22
Randomly Generated number:    10
Randomly Generated number:    17
Randomly Generated number:    15
Randomly Generated number:    23

+-----+
You have won $50.0
You have won a total of $50.0
Your ticket total is $10.0

```

- After showing each result, user is asked if they want to play lottery again by typing “y” or end the game by typing “n”.

- **Replaying the game:**

- If the user types “y”, the game is repeated from Step 2, asking user to enter three numbers.

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Would you like to play again? (y/n): y
```

```
Enter a number (20 - 30): 22
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```
Enter a number (10 - 20): 14
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```
Enter a number (30 - 40): 38
```

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+-----+
```

```
  Your lotto ticket is 22 14 38.
```

```
+-----+
```

```
Randomly Generated number:      14
```

- Once all nine numbers are displayed, the total cash won by the player in the recent game and total cash won till now is displayed along with the price that the player must pay for the ticket.

```
Randomly Generated number:      20
```

```
*****
```

```
* Congratulations!! *
```

```
*****
```

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●
```

```
Randomly Generated number:      10
```

```
Randomly Generated number:      28
```

```
+-----+
```

```
  You won $100.0
```

```
  You have won a total of $200.0
```

```
  Your ticket total is $20.0
```

```
+-----+
```

- The user is again asked if they want to replay the game.
- **Ending the game:**
 - If the user types “n”, the game ends showing game summary and total money user won/owe.
 - Total money user won/owe is determined by subtracting the total cash won from total ticket price.
 - If the total cash owed has a negative sign, it means that the player has won the shown amount. Else if the total cash owed is positive, the player must pay the shown amount.

```
Would you like to play again? (y/n): n

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                GAME SUMMARY
-----
Player name: Deepmala

Total times won:          4
Total times played:       2
-----
Total cash won:           $200.00
Total ticket cost:        $20.00
-----

Total cash owed:          $-180.00
-----
```

Game Rules:

- Each input number that match with randomly generated number wins \$50.
- Each Game Costs \$10.
- Player should not enter numbers that are out of the range. The program will not take numbers that are out of the given range.
- The program will keep on asking new numbers from the user until all the inputs are within the range.