

```
=====
||                WELCOME TO THE 2-IN-1 GAME                ||
=====
Please enter your name: Keff
```

```
=====
||                Old save found!                            ||
||    Would you like to continue from last save?            ||
||    Enter 1 for Yes or anything else for No                ||
=====
Your choice: 1
```

(Note: The interface is cleared)

```
=====
||    Welcome back Keff!                                     ||
||                                                         ||
||    Current round:          4                               ||
||    Current score:         100                             ||
=====
```

Enter anything to continue the game ... 0

(Note: The interface is cleared)

(Note: The player with name Keff has just saved the game progress after finishing the Round 3,so now the game will start with Round 4)

```
=====
||    This is Round 4 / 5!                                   ||
=====
=====
||    Which game would you like to play?                     ||
||                                                         ||
||    To play Crazy Eights, please enter 1                   ||
||    To play 24 Calculation, please enter 2                 ||
||    To quit and save progress, please enter 3              ||
=====
Your choice: 1
```

(Note: The interface is cleared)

```
=====
||    Hi there! Welcome to the Crazy Eights!                 ||
||    Enter 1:  Play                                           ||
||    Enter 2:  Read rules and Play                           ||
=====
Your option: 1
```

(Note: The interface is cleared)

```
=====
||    Enter number of AIs you'd like to play with (1 or 2)  ||
=====
Your choice: 1
```

(Note: The interface is cleared)

```
=====
||    Before this round the score is:          100           ||
=====
Enter anything to continue...0
```

(Note: The interface is cleared)

```

=====
|| Opening card is 10♠ ||
=====
=====
|| Deck size: 37 ||
=====
=====
|| It is YOUR turn! ||
=====
=====
|| Your cards are: ||
|| 0) 3♣ 1) 5♠ ||
|| 2) 5♥ 3) 7♥ ||
|| 4) 9♣ 5) J♣ ||
|| 6) K♦ ||
=====
|| Your turn. Please play a valid card or ||
|| enter -1 to draw a card from the Draw pile ||
=====

```

Your choice: 0

(Note: ♠, ♥, ♣, ♦ represent SPADES, HEARTS, CLUBS and DIAMONDS respectively)

```

=====
|| K♦ is an invalid card. Please choose another to play ||
=====
Your choice: -1
You drew 8♦

```

(Note: The interface is cleared)

```

=====
|| Top card is 10♠ ||
=====
=====
|| Deck size: 36 ||
=====
=====
|| It is AI_1's turn! ||
=====

```

AI\_1 plays: 2♠  
AI\_1 has 6 cards left

(Note: The interface is cleared)

```

=====
|| Top card is 2♠ ||
=====
=====
|| Deck size: 36 ||
=====
=====
|| It is YOUR turn! ||
=====
=====
|| Your cards are: ||
|| 0) 3♣          1) 5♠          ||
|| 2) 5♥          3) 7♥          ||
|| 4) 9♣          5) J♣          ||
|| 6) K♦          7) 8♦          ||
=====
=====
|| Your turn. Please play a valid card or ||
|| enter -1 to draw a card from the Draw pile ||
=====
Your choice: 7
=====
|| You have played a WILD CARD ||
|| Please choose the suit that you want ||
|| 0 for SPADES          1 for HEARTS ||
|| 2 for CLUBS           3 for DIAMONDS ||
=====
Your choice: 3
The suit has been changed into: DIAMONDS!

```

```

=====
|| Top card is 2♦ ||
=====
=====
|| Deck size: 36 ||
=====
=====
|| It is AI_1's turn! ||
=====
AI_1 plays: Q♦
AI_1 has 5 cards left

```

```

=====
|| Top card is Q♦ ||
=====
=====
|| Deck size: 36 ||
=====
=====
|| It is YOUR turn! ||
=====
=====
|| Your cards are: ||
|| 0) 3♣          1) 5♠ ||
|| 2) 5♥          3) 7♥ ||
|| 4) 9♣          5) J♣ ||
|| 6) K♦ ||
=====
=====
|| Your turn. Please play a valid card or ||
|| enter -1 to draw a card from the Draw pile ||
=====
Your choice: 6

```

```

=====
||  Top card is K♦  ||
=====
=====
||  Deck size: 36  ||
=====
=====
||                                     It is AI_1's turn!                                     ||
=====
AI_1 plays: J♦
AI_1 has 4 cards left

```

(Note: The interface is cleared)

```

=====
||  Top card is J♦  ||
=====
=====
||  Deck size: 36  ||
=====
=====
||                                     It is YOUR turn!                                     ||
=====
=====
||  Your cards are:                                     ||
||      0)  3♣      1)  5♠                               ||
||      2)  5♥      3)  7♥                               ||
||      4)  9♣      5)  J♣                               ||
||  =====                                           ||
||  Your turn. Please play a valid card or              ||
||  enter -1 to draw a card from the Draw pile          ||
||  =====                                           ||
Your choice: 5

```

(Note: The interface is cleared)

```

=====
||  Top card is J♣  ||
=====
=====
||  Deck size: 36  ||
=====
=====
||                                     It is AI_1's turn!                                     ||
=====
AI_1 plays: 10♣
AI_1 has 3 cards left

```

(Note: The interface is cleared)

```

=====
||  Top card is 10♣ ||
=====
=====
||  Deck size: 36  ||
=====
=====
||                                     It is YOUR turn!                                     ||
=====
=====
||  Your cards are:                                     ||
||      0)  3♣      1)  5♠                               ||
||      2)  5♥      3)  7♥                               ||
||      4)  9♣                                     ||
||  =====                                           ||
||  Your turn. Please play a valid card or              ||
||  enter -1 to draw a card from the Draw pile          ||
||  =====                                           ||
Your choice: 4

```

(Note: The interface is cleared)

(Note: The interface is cleared)

(Note: The interface is cleared)

(Note: The interface is cleared)

(Note: The interface is cleared)



```
=====
||  YOU WIN as you have played all of your cards!  ||
=====
```

(Note: The interface is cleared)

Here is Keff's scoreboard for this round:

```
=====
||      Game Mode:          1 AIs      ||
||  Cards remained:         35         ||
||      Game status:        YOU WIN!   ||
||                                ||
||  Overall Score:          49         ||
=====
Enter anything to end this round...0
```

(Note: The interface is cleared)

```
=====
||  After this round the score is:      149      ||
=====
```

```
=====
||      Round over, thanks for playing Crazy Eights!  ||
=====
Enter anything to go back to the main menu...0
```

(Note: The interface is cleared)

```
=====
||      Let us have a rest ...      ||
||                                ||
||      Welcome to Slot Machine!    ||
||  You have a chance to double your bet or lose your bet.  ||
||                                ||
||      If all 3 numbers are same, then CONGRATULATIONS,    ||
||      otherwise you LOSE          ||
=====
```

You have got a 10 bonus score :) have fun with the slot machine!  
Enter amount of score to bet (Between 1 and 159): 6

(Note: After Round 2 and Round 4, there are slot machines  
to give you a chance to bet and double your current score)

(Note: The interface is cleared)

```
=====
||  Your numbers are: 1  1  1      ||
=====
||      CONGRAGULATIONS YOU DOUBLED YOUR BET!!!      ||
=====
||  Current score:      165      ||
=====
Enter anything to continue the next round ...0
```

(Note: The interface is cleared)

```
=====
||      This is Round 4 / 5!      ||
=====
```

```
=====
||      Which game would you like to play?      ||
||
||      To play Crazy Eights, please enter 1
||      To play 24 Calculation, please enter 2
||      To quit and save progress, please enter 3
||
=====
```

Your choice: 2

(Note: The interface is cleared)

```
=====
||      Hi there! Welcome to the Crazy Eights!      ||
||      Enter 1:  Play
||      Enter 2:  Read rules and Play
||
=====
```

Your option: 2

(Note: The interface is cleared)

```
=====
||      Rules of 24_Calculation      ||
||
||      A few numbers will be given to you!
||      Your task: Form an expression to make it 24,
||      with each number used exactly once,
||      basic operators (+, -, *, /) and brankets.
||
||      Decimals can be involved in the calculation!
||      Avoid negative numbers in the calculation!
||
=====
```

Enter anything to continue...0

(Note: The interface is cleared)

```
=====
||      Before this round the score is:      165      ||
=====
```

Enter anything to continue...0

(Note: The interface is cleared)

Hi 0, Please select your game mode:

```
=====
||      Enter 1:  Calculate  4  numbers
||      Enter 2:  Calculate  5  numbers
||      Enter 3:  Calculate  6  numbers
||
=====
```

Your option: 1

(Note: The interface is cleared)

```
=====
||      24_Calculation
||      Calculate  4  numbers
||
||      ?  Example:
||      Given numbers:      3♠   4♥   9♣   Q♦
||      Enter your calculation:  3 * 9 - 12 / 4
||
||      Note: A, J, Q, K  value  1, 11, 12, 13 individually.
||      There are 5 questions! Solve as fast as you can!
||
=====
```

Enter anything to start...0

(Note: The interface is cleared)



```

=====
|| ? Question 1
|| Given numbers:          4♥    8♠    9♣    9♦    ||
=====
Enter your calculation:      8 * (4 - 9 / 9)
Division: 9 / 9 = 1
Subtraction: 4 - 1 = 3
Multiplicaton: 8 * 3 = 24

☑ You got it! Well done!           Time used: 40000 ms
Points for this question: 20       Points accumulated: 20
Enter anything to continue...0

```

(Note: The interface is cleared)

```

=====
|| ? Question 2
|| Given numbers:          5♠    7♣    7♣    J♠    ||
=====
Enter your calculation:      5 * 7 - 7 - 11
Multiplicaton: 5 * 7 = 35
Subtraction: 35 - 7 = 28
Subtraction: 28 - 11 = 17

✗ Emm... The result is 17 but not 24 :(
Points for this question: 0       Points accumulated: 20
Enter anything to continue...0

```

(Note: The interface is cleared)

```

=====
|| ? Question 3
|| Given numbers:          3♠    8♠    Q♣    K♣    ||
=====
Enter your calculation:      3 * 8

✗ You haven't use the given numbers! Please use all of them exactly once
Points for this question: 0       Points accumulated: 20
Enter anything to continue...0

```

(Note: The interface is cleared)

```

=====
|| ? Question 4
|| Given numbers:          3♥    6♥    K♦    K♠    ||
=====
Enter your calculation:      13 + 13 - 6 / 3
Addition: 13 + 13 = 26
Division: 6 / 3 = 2
Subtraction: 26 - 2 = 24

☑ You got it! Well done!           Time used: 6000 ms
Points for this question: 15       Points accumulated: 35
Enter anything to continue...0

```

(Note: The interface is cleared)

```

=====
|| ? Question 5
|| Given numbers:          A♠    5♠    Q♥    Q♦    ||
=====
Enter your calculation:      5 - 12 + 12 + 1
Subtraction: 5 - 12 = -7
Negative numbers detected!

✗ Sorry, please get rid of negative numbers in the calculation!
Points for this question: 0       Points accumulated: 35
Enter anything to continue...0

```

(Note: The interface is cleared)

Here is Keff's scoreboard for this round:

```
=====
||      Game Mode:      Calculate 4 numbers      ||
||      Correct #:      2                        ||
||      Time:           100000 ms                 ||
||      Max.streak:      1                        ||
||      Min.time:        4000 ms                  ||
||      Overall Score:   35                       ||
||      Overall Grade:   C                       ||
=====
```

Enter anything to end this round...0

(Note: The interface is cleared)

```
=====
|| After this round the score is:      149      ||
=====
```

Enter anything to continue...0

```
=====
|| Round over, thanks for playing 24_Calculation! ||
=====
```

Enter anything to go back to the main menu...0

(Note: The interface is cleared)

```
=====
||      GAME OVER      ||
||      Thanks for playing!      ||
=====
```

Name: Keff  
Score: 200

Your game statistics can be found in "[Game result] Keff.txt" !  
Have a good day!

Enter anything to quit ...0

(Now the game is quit. You can reload your game after entering the same name of your previous progress when restarting the game by entering the ./MainMenu command, in case you have just saved your progress between the rounds and quit. By using a new name when start again, a pair of new progress and result files will be created, so there will be no collisions and you can still continue the progress with another name ID).