Untitled-1

```python
1   import random
2
3   def get_computer_choice():
4       """Randomly choose between rock, paper, and scissors for the computer."""
5       choices = ['rock', 'paper', 'scissors']
6       return random.choice(choices)
7
8   def determine_winner(user_choice, computer_choice):
9       """Determine the winner based on user and computer choices."""
10      if user_choice == computer_choice:
11          return "It's a tie!"
12      elif (user_choice == 'rock' and computer_choice == 'scissors') or \
13           (user_choice == 'scissors' and computer_choice == 'paper') or \
14           (user_choice == 'paper' and computer_choice == 'rock'):
15          return "You win!"
16      else:
17          return "You lose!"
18
19  def play_rps():
20      """Main function to play the Rock-Paper-Scissors game."""
21      print("Welcome to Rock-Paper-Scissors!")
22
23      # Get user's choice
24      user_choice = input("Enter rock, paper, or scissors: ").lower()
25
26      # Validate user's choice
27      if user_choice not in ['rock', 'paper', 'scissors']:
28          print("Invalid choice! Please choose rock, paper, or scissors.")
29          return
30
31      # Get computer's choice
32      computer_choice = get_computer_choice()
33      print(f"Computer chose: {computer_choice}")
34
35      # Determine and display the result
36      result = determine_winner(user_choice, computer_choice)
37      print(result)
38
39  # Run the game
40  if __name__ == "__main__":
41      play_rps()
42
```