



SCRABBLE

START

```
1 def main():
2     print("●○●●○● SCRABBLE ●○●●○●")
3     print("To play the game, each player is given 13 letters, which they must")
4     print("rearrange to create words. Different letters have different point")
5     print("values, since it's easier to create words with some letters than others.")
6     print("-" * 45)
7
```

PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL PUERTOS 1

```
@LunaRobles2 →/workspaces/informatica-5-6--Luna (main) $ /bin/python3 "/workspaces/informatica-5-6--Luna/Repository Checkpoint 8/scrabble.py
●○●●○● SCRABBLE ●○●●○●
To play the game, each player is given 13 letters, which they must
rearrange to create words. Different letters have different point
values, since it's easier to create words with some letters than others.
```

```
9 import random
alphabet = {
10     'A': 1, 'E': 1, 'I': 1, 'O': 1, 'U': 1, 'L': 1, 'N': 1, 'R': 1, 'S': 1, 'T': 1,
11     'D': 2, 'G': 2,
12     'B': 3, 'C': 3, 'M': 3, 'P': 3,
13     'F': 4, 'H': 4, 'V': 4, 'W': 4, 'Y': 4,
14     'K': 5,
15     'J': 8, 'X': 8,
16     'Q': 10, 'Z': 10
17 }
18
19 # Picks 13 random letters from the alphabet
20 user_letters = []
21 i = 0
22 while i < 13:
23     user_letters.append(list(alphabet.keys())[random.randint(0,25)])
24     i += 1
25 print(user_letters)
```

PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL PUERTOS 1

```
@LunaRobles2 →/workspaces/informatica-5-6--Luna (main) $ /bin/python3 "/workspaces/informatica-5-6--Luna/Repository Checkpoint 8/scrabble.py
●○●●○● SCRABBLE ●○●●○●
To play the game, each player is given 13 letters, which they must
rearrange to create words. Different letters have different point
values, since it's easier to create words with some letters than others.
```

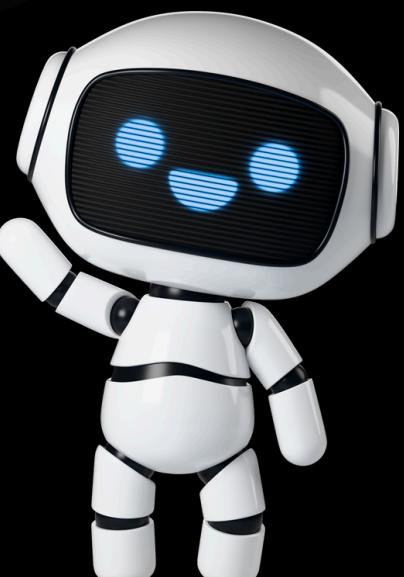
```
['P', 'U', 'Q', 'K', 'Z', 'A', 'Y', 'W', 'N', 'U', 'Z', 'Q', 'P']
Enter a word with these letters:
```

1. The beginning where we put the instructions and the title "SCRABBLE"

2. Add import random to use it later.

3. Add a dictionary with every letter and their value.

4. Create a list and set i
5. make a while to give you 13 random letters.



```

#Ask the usser for a word with the given letters
word = input("Enter a word with these letters: ").upper()

# Checks if the word exist and counts
score = 0
while True:
    while True:
        # Check if the word is in the dictionary
        with open("scrabble-words.txt", "r") as file:
            lines = file.readlines()
        dictwords = []
        for line in lines:
            dictwords.append(line.replace("\n", ""))
        
        # Told you if the word is in the dictionary
        if word.lower() in dictwords:
            print("Valid")
            break

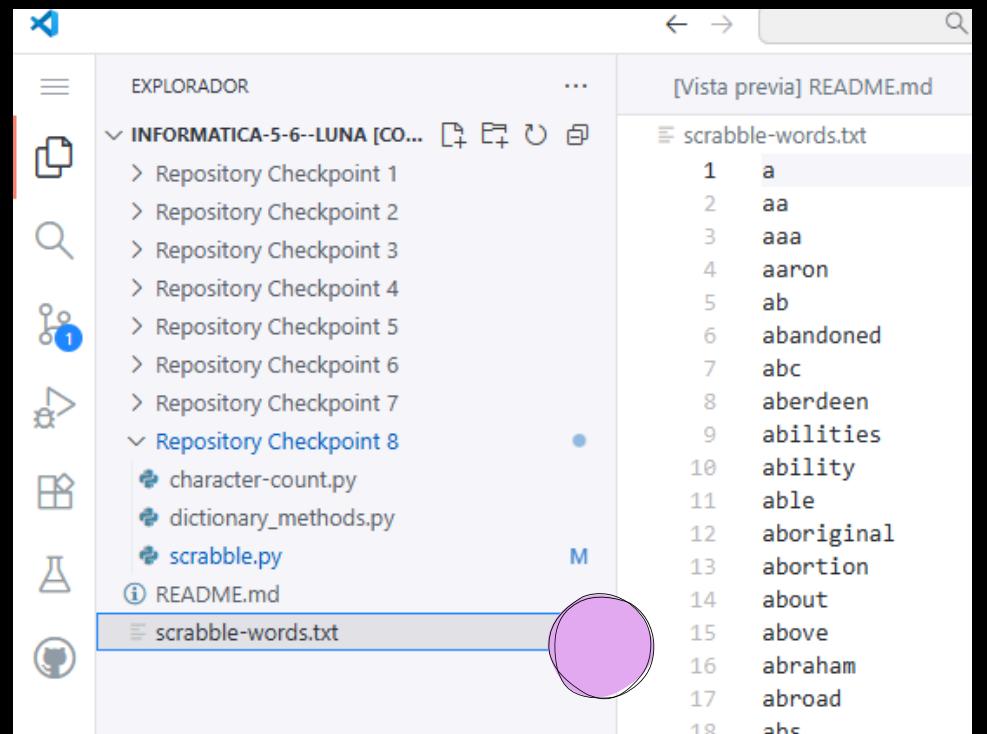
        # Told you if the word is not in the dictionary
        else:
            word = input("Not valid, try again: ").upper()
            if word == "":
                break

```

```

-----
['M', 'P', 'J', 'U', 'F', 'Y', 'Z', 'I', 'I', 'V', 'Z', 'I', 'B']
Enter a word with these letters: jump
Valid
Your total score is: 15
Remaining letters:

```



MIT
mit.edu > ~ecprice > wordlist.10000
10000 Word list
ed denmark dennis dense density dental dentists denver deny department departmental departments departure depend dependence dependent depending depends deployment deposit deposits depot depression dept depth deputy der derby derek derived des...

1. Ask the user for a word with the given letters.

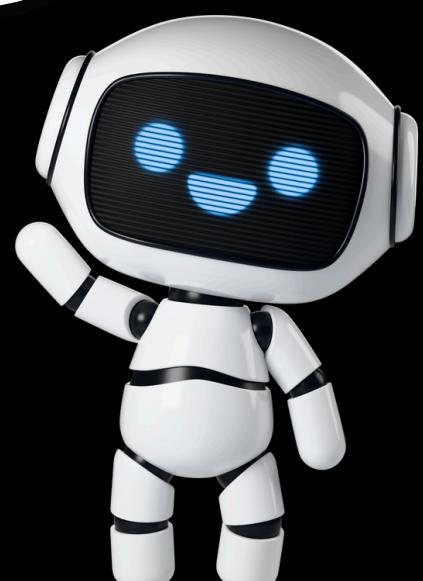
2. Check if is a real word.

2.1. create a dictionary with existing words.

2.2. for that we create a txt file.

2.3. once the txt file has been created, we paste the words from a dictionary from an internet page there. on the Ctr+a and Ctr+c page, in the Ctr+v document.

Example



```

# Checks if the word exist and counts
score = 0
while True:
    while True:
        # Check if the word is in the dictionary
        with open("scrabble-words.txt", "r") as file:
            lines = file.readlines()
        dictwords = []
        for line in lines:
            dictwords.append(line.replace("\n", ""))
        # Told you if the word is not in the dictionary
        else:
            word = input("Not valid, try again: ").upper()
            if word == "":
                break

        # Checks if the input is ENTER
        if word != "":
            # Removes the letters the user entered
            for letter in word:
                user_letters.pop(user_letters.index(letter))

            # Adds the value of every letter
            for value in word:
                score += alphabet[value]

            print(f"Your total score is: {score}")
            print(f"Remaining letters: \n{user_letters}")
            word = input("Enter a word with the remaining letters, press ENTER to stop: ").upper()
            if word == "":
                break
            else: break
    print(f"Thank you for playing! Your final score is {score}")

main()

```

1. When you don't write anything and only press ENTER it means that you give up and don't want to continue playing .

2. To give us an update of the remaining lyrics we use the function .pop.

3. Add the points that we accumulate.

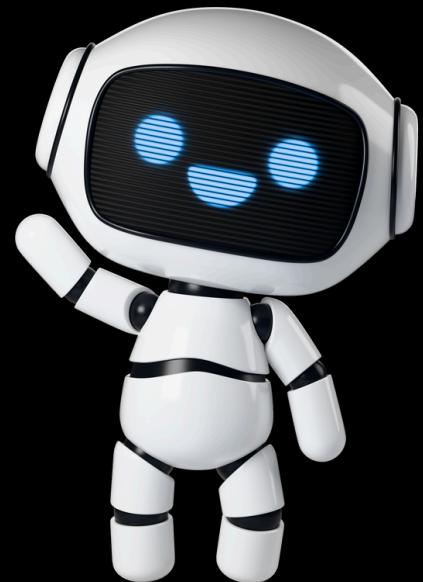
4. Print the score you have and the missing letters so you can use them for the next round.

5. Results.

```

['M', 'P', 'J', 'U', 'F', 'Y', 'Z', 'I', 'I', 'V', 'Z', 'I', 'B']
Enter a word with these letters: jump
Valid
Your total score is: 15
Remaining letters:
['F', 'Y', 'Z', 'I', 'I', 'V', 'Z', 'I', 'B']
Enter a word with the remaining letters, press ENTER to stop:

```



```

# Told you if the word is not in the dictionary
else:
    word = input("Not valid, try again: ").upper()
    if word == "":
        break

# Checks if the input is ENTER
if word != "":

    # Removes the letters the user entered
    for letter in word:
        user_letters.pop(user_letters.index(letter))

    # Adds the value of every letter
    for value in word:
        score += alphabet[value]

    print(f"Your total score is: {score}")
    print(f"Remaining letters: \n{user_letters}")
    word = input("Enter a word with the remaining letters, press ENTER to stop: ").upper()
    if word == "":
        break
    else: break
print(f"Thank you for playing! Your final score is {score}")

main()

```

1. When you don't write anything and only press ENTER it means that you give up and don't want to continue playing or that you are finish.

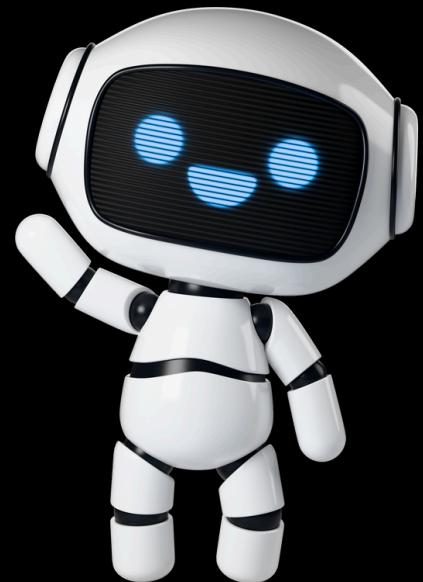
2. Add break if there is no word and also a break with an else (part of the while in the check the word and the if if you press enter) after that we thank you for playing our game.

3. Return to main function.

```

-----
['M', 'P', 'J', 'U', 'F', 'Y', 'Z', 'I', 'I', 'V', 'Z', 'I', 'B']
Enter a word with these letters: jump
Valid
Your total score is: 15
Remaining letters:
['F', 'Y', 'Z', 'I', 'I', 'V', 'Z', 'I', 'B']
Enter a word with the remaining letters, press ENTER to stop: ^CTr

```



```

1  def main():
2      print("●○●○●○● SCRABBLE ●○●○●")
3      print("To play the game, each player is given 13 letters, which they must")
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9      alphabet = {
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19      # Picks 13 random letters from the alphabet
20      user_letters = []
21      i = 0
22      while i < 13:
23          user_letters.append(list(alphabet.keys())[random.randint(0,25)])
24          i += 1
25      print(user_letters)
26
27      #Ask the usser for a word with the given letters
28      word = input("Enter a word with these letters: ").upper()
29
30      # Checks if the word exist and counts
31      score = 0
32      while True:
33          while True:
34              # Check if the word is in the dictionary
35              with open("scrabble-words.txt", "r") as file:
36                  lines = file.readlines()
37                  dictwords = []
38                  for line in lines:
39                      dictwords.append(line.replace("\n", ""))
40
41              # Told you if the word is in the dictionary
42              if word.lower() in dictwords:
43                  print("Valid")
44                  break
45
46              # Told you if the word is not in the dictionary
47              else:
48                  word = input("Not valid, try again: ").upper()
49                  if word == "":
50                      break
51
52          # Checks if the input is ENTER
53          if word != "":
54
55          # Removes the letters the user entered
56          for letter in word:
57              user_letters.pop(user_letters.index(letter))
58
59          # Adds the value of every letter
60          for value in word:
61              score += alphabet[value]
62
63          print(f"Your total score is: {score}")
64          print(f"Remaining letters: \n{user_letters}")
65          word = input("Enter a word with the remaining letters, press ENTER to stop: ").upper()
66          if word == "":
67              break
68          else: break
69          print(f"Thank you for playing! Your final score is {score}")
70
71      main()

```

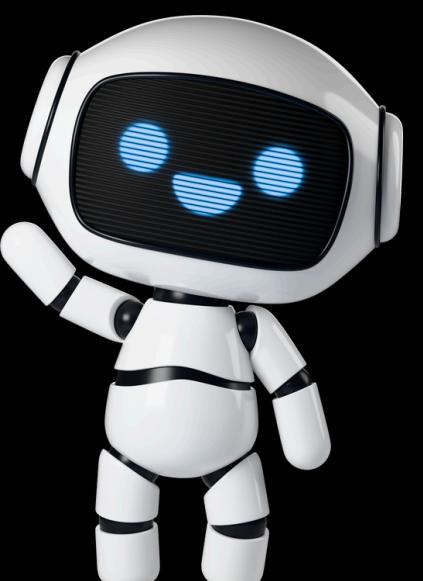
```

27      #Ask the usser for a word with the given letters
28      word = input("Enter a word with these letters: ").upper()
29
30      # Checks if the word exist and counts
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33          while True:
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35              with open("scrabble-words.txt", "r") as file:
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48                  word = input("Not valid, try again: ").upper()
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52              # Checks if the input is ENTER
53              if word != "":
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55              # Removes the letters the user entered
56              for letter in word:
57                  user_letters.pop(user_letters.index(letter))
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59              # Adds the value of every letter
60              for value in word:
61                  score += alphabet[value]
62
63              print(f"Your total score is: {score}")
64              print(f"Remaining letters: \n{user_letters}")
65              word = input("Enter a word with the remaining letters, press ENTER to stop: ").upper()
66              if word == "":
67                  break
68              else: break
69              print(f"Thank you for playing! Your final score is {score}")
70
71      main()

```



this is how our finished code looks like.



R O D R I G O

N
1

A
1

E
1

L U N A

M
3

T L U I S A

J O S E P H

Thanks for your attention,
please don't ask questions for
everyone's sake (:

