

# English Dictionary

Submitted in fulfillment of the requirements

Of micro-project

Programming with Python

By

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ROLL NO:- \_\_\_\_\_

ENROLLMENT NO :- \_\_\_\_\_

SUBJECT INCHARGE

Mrs. Smita Kuldiwar

Department of Computer Engineering

Academic Year: 2019-20



SARASWATI Education Society's  
**SARASWATI** Institute of Technology

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Kharghar, Navi Mumbai - 410 210.

# CERTIFICATE

*This is to certify that the microproject*

"English Dictionary"

*is done by*

**"Urmi Patel"**

*is submitted for*

**"Programming with Python"**

*for*

*the diploma in Computer Engineering to the*



**Maharashtra State Board of Technical Education, Mumbai**

(Autonomous) (ISO-9001-2008) (ISO/IEC 27001:2013)

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Subject Incharge

(Mrs. Smita Kuldiwar)

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Head of Department

(Mrs. Manisha Patil)

# **English Dictionary**

## **Aim**

“Create an English Dictionary which will be able to perform following functions:

- I. Add a word and its meaning.
- II. Delete a word and its meaning.
- III. Update a word or its meaning
- IV. Print list of word and its meaning. “

## **Course Outcomes**

1. Display message on screen using Python script on IDE.
2. Develop python program to demonstrate use of Operators.

## **Proposed Methodology**

- ❖ First, Searching the topic on for which project must to be made. And Proposed the topic.
- ❖ After selecting the topic for the project, starts searching about the topic.
- ❖ After Finalizing the topic, I started to collect the data regarding the data.
- ❖ After collecting the data, I started to analyze the data and sort the data and arranged it in a proper and a sophisticated manner.
- ❖ For Program Execution, starting with simple program. Run program on PyCharm or any Python IDE.
- ❖ Run different conditional statements and loops like if, else, while etc.
- ❖ After the Program is Ready. I started to make the Report.

### Action Plan

<b>Sr. No.</b>	<b>Details of activity</b>	<b>Planned Start date</b>	<b>Planned Finish date</b>
1	Searching of Topic	27/12/19	08/01/20
2	Gathering Information about Topic	08/01/20	10/01/20
3	Execution of Program	13/01/20	18/01/20
4	Report Making	10/02/20	17/02/20

### Resource Required

<b>Sr. No.</b>	<b>Name of Resource</b>	<b>Specification</b>	<b>Qty.</b>	<b>Remark</b>
1	Computer	Intel i3, 4GB RAM or above	1	-
2	MS-Word	Office 2007 or above	1	-
3	Python IDE	Python 3.0	1	-

# **Report**

## **Rationale**

With growing technology, everything has relied on data and securing these data is the main concern. Passwords are meant to keep the data safe that we upload on the Internet. An easy password can be hacked easily, and all the personal information can be misused. In order to prevent such things and keep the data safe, it is quite necessary to keep our passwords very strong. This application can generate random password, with the combination of letters, numeric, and special characters.

## **Aim**

Create an English Dictionary which will be able to perform following functions:

- I. Add a word and its meaning.
- II. Delete a word and its meaning.
- III. Update a word or its meaning
- IV. Print list of word and its meaning.

## **Course Outcomes**

1. Display message on screen using Python script on IDE.
2. Develop python program to demonstrate use of Operators.

## Literature

Python was conceived in the late 1980s by Guido van Rossum at Centrum Wiskunde & Informatica (CWI) in the Netherlands as a successor to the ABC language (itself inspired by SETL), capable of exception handling and interfacing with the Amoeba operating system. Its implementation began in December 1989. Van Rossum shouldered sole responsibility for the project, as the lead developer, until 12 July 2018, when he announced his "permanent vacation" from his responsibilities as Python's Benevolent Dictator For Life, a title the Python community bestowed upon him to reflect his long-term commitment as the project's chief decision-maker. He now shares his leadership as a member of a five-person steering council. In January 2019, active Python core developers elected Brett Cannon, Nick Coghlan, Barry Warsaw, Carol Willing and Van Rossum to a five-member "Steering Council" to lead the project.

## Python Dictionary

Python dictionary is an unordered collection of items. While other compound data types have only value as an element, a dictionary has a key: value pair.

Each key is separated from its value by a colon (:), the items are separated by commas, and the whole thing is enclosed in curly braces. An empty dictionary without any items is written with just two curly braces, like this: {}.

Keys are unique within a dictionary while values may not be. The values of a dictionary can be of any type, but the keys must be of an immutable data type such as strings, numbers, or tuples.

### Actual Methodology Followed

Topic	Work Done	Work Done By
1	Searching of Topic	Urmi Patel
2	Gathering Information about Topic	Urmi Patel
3	Execution of Program	Urmi Patel
4	Report Making	Urmi Patel

### Skill Developed

1. Able to be developed Python Program.
2. Able to be developed use different Python operators.
3. Able to use different conditional statements and loops in python.

### Source Code

```
all_words={
"Absolute value":"the magnitude of a real number without regard to its sign.",
"Bits":"Binary digit ",
"Cryptography":"the art of writing or solving codes.",
"Database":"a structured set of data held in a computer, especially one that is accessible in various ways.",
"Data":"facts and statistics collected together for reference or analysis.",
"Information":"facts provided or learned about something or someone.",
"Networking":"the linking of computers to allow them to operate interactively.",
"Operator":"a person who operates equipment or a machine.",
"Security":"the state of being free from danger or threat."
}
def banner():
    print("*****")
    print("\t 1. Search Word ")
    print("\t 2. Add New Word")
    print("\t 3. Update Word")
    print("\t 4. Delete Word")
    print("\t 5. Display Entire Dictionary")
```

```

print("*****")

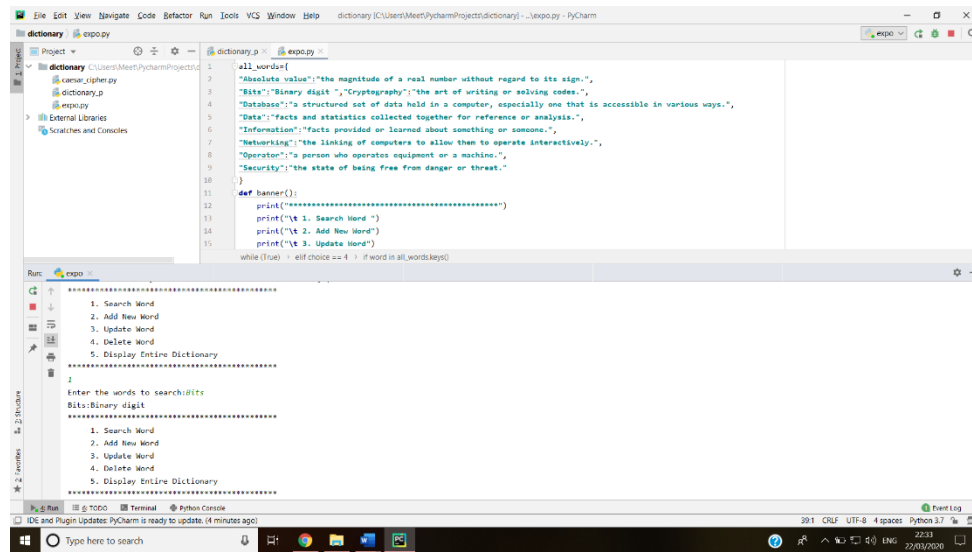
def display():
    print("Words in the Dictionary:")
    for key in all_words:
        print("{}:{}".format(key,all_words[key]))

while(True):
    banner()
    choice = int(input())
    if choice ==1:
        word = input("Enter the words to search:")
        if word in all_words.keys():
            print("{}:{}".format(word,all_words[word]))
        else:
            print("Word not found.If you Wish to add the word to dictionary press 2")
    elif choice == 2:
        word=input("Enter the Word to add:")
        if word in all_words.keys():
            print("{} is already there dictionary.\n If you wish to update the meaning press 3".format(word))
        else:
            meaning=input("Enter the meaning of {}".format(word))
            all_words[word]=meaning
            print("{} is saved in the dictionary".format(word,all_words[word]))
    elif choice == 3:
        word=input("Enter the Word to Update:")
        if word in all_words.keys():
            meaning=input("Enter the meaning of {}".format(word))
            all_words[word]=meaning
        else:
            print("{} is not present in dictionary .Press 2 to add".format(word))
    elif choice == 4 :
        word=input("Enter the word to delete:")
        if word in all_words.keys():
            del all_words[word]
            print("The word is deleted from dictionary")
        else:
            print("{} is not present in dictionary .Press 2 to add".format(word))
    elif choice == 5:
        display()
    else:
        continue

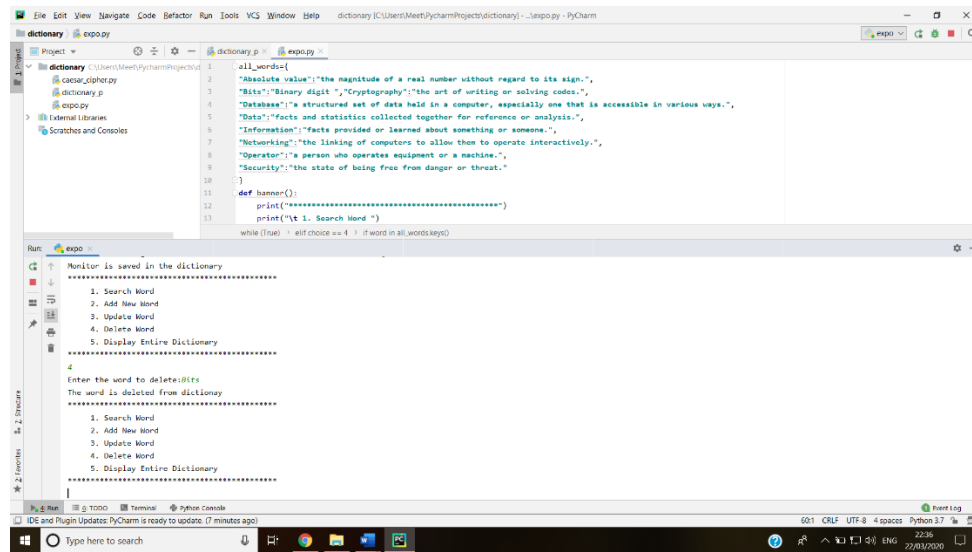
```



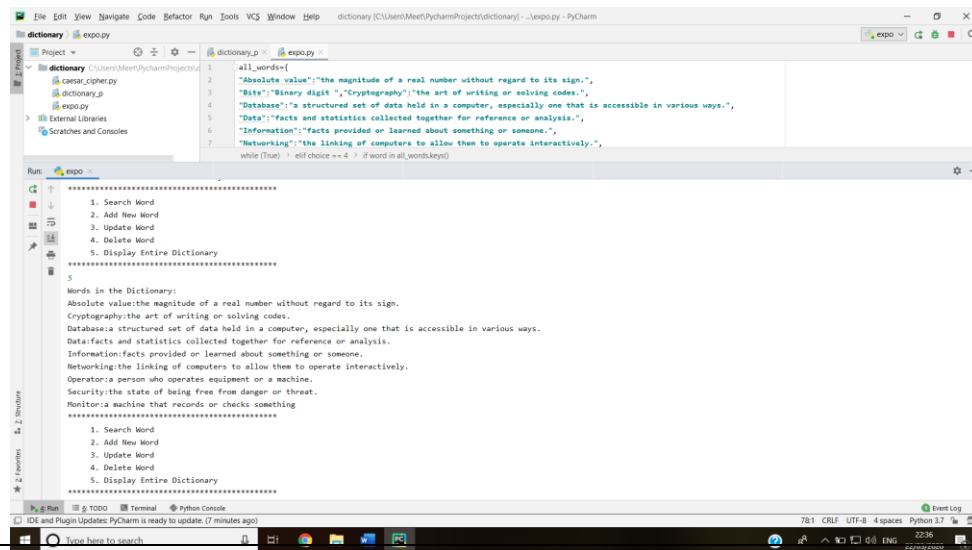
# Output



```
File Edit View Navigate Code Refactor Run Tools VCS Window Help dictionary [C:\Users\Meer\PycharmProject\dictionary] - expo.py - PyCharm
dictionary expo.py
Project
  dictionary C:\Users\Meer\PycharmProject\
    caesar_cipher.py
    dictionary.p
    expo.py
  External Libraries
  Scratches and Consoles
dictionary.p expo.py
1 all_words={
2     "Absolute value":"the magnitude of a real number without regard to its sign.",
3     "Bits":"Binary digit ","Cryptography":"the art of writing or solving codes.",
4     "Database":"a structured set of data held in a computer, especially one that is accessible in various ways.",
5     "Data":"facts and statistics collected together for reference or analysis.",
6     "Information":"facts provided or learned about something or someone.",
7     "Networking":"the linking of computers to allow them to operate interactively.",
8     "Operator":"a person who operates equipment or a machine.",
9     "Security":"the state of being free from danger or threat."
10 }
11 def banner():
12     print("=====")
13     print("\t 1. Search Word ")
14     print("\t 2. Add New Word ")
15     print("\t 3. Update Word ")
16     while (True):
17         if choice == 4:
18             if word in all_words.keys():
19                 print("=====")
20                 print("\t 1. Search Word ")
21                 print("\t 2. Add New Word ")
22                 print("\t 3. Update Word ")
23                 print("\t 4. Delete Word ")
24                 print("\t 5. Display Entire Dictionary ")
25                 print("=====")
26                 Enter the words to search:Bits
27                 Bits:Binary digit
28                 print("=====")
29                 print("\t 1. Search Word ")
30                 print("\t 2. Add New Word ")
31                 print("\t 3. Update Word ")
32                 print("\t 4. Delete Word ")
33                 print("\t 5. Display Entire Dictionary ")
34                 print("=====")
35
Run expo
1. Search Word
2. Add New Word
3. Update Word
4. Delete Word
5. Display Entire Dictionary
=====
Enter the words to search:Bits
Bits:Binary digit
=====
1. Search Word
2. Add New Word
3. Update Word
4. Delete Word
5. Display Entire Dictionary
=====
Py Run TODO Terminal Python Console
IDE and Plugin Updates: PyCharm is ready to update. (4 minutes ago)
201 CR LF UTF-8 4 spaces Python 3.7
22:31
22/01/2020
```



```
File Edit View Navigate Code Refactor Run Tools VCS Window Help dictionary [C:\Users\Meer\PycharmProject\dictionary] - expo.py - PyCharm
dictionary expo.py
Project
  dictionary C:\Users\Meer\PycharmProject\
    caesar_cipher.py
    dictionary.p
    expo.py
  External Libraries
  Scratches and Consoles
dictionary.p expo.py
1 all_words={
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18             if word in all_words.keys():
19                 print("=====")
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23                 print("\t 4. Delete Word ")
24                 print("\t 5. Display Entire Dictionary ")
25                 print("=====")
26                 Monitor is saved in the dictionary
27                 print("=====")
28                 print("\t 1. Search Word ")
29                 print("\t 2. Add New Word ")
30                 print("\t 3. Update Word ")
31                 print("\t 4. Delete Word ")
32                 print("\t 5. Display Entire Dictionary ")
33                 print("=====")
34                 Enter the word to delete:Bits
35                 The word is deleted from dictionary
36                 print("=====")
37                 print("\t 1. Search Word ")
38                 print("\t 2. Add New Word ")
39                 print("\t 3. Update Word ")
40                 print("\t 4. Delete Word ")
41                 print("\t 5. Display Entire Dictionary ")
42                 print("=====")
43
Run expo
Monitor is saved in the dictionary
=====
1. Search Word
2. Add New Word
3. Update Word
4. Delete Word
5. Display Entire Dictionary
=====
Enter the word to delete:Bits
The word is deleted from dictionary
=====
1. Search Word
2. Add New Word
3. Update Word
4. Delete Word
5. Display Entire Dictionary
=====
Py Run TODO Terminal Python Console
IDE and Plugin Updates: PyCharm is ready to update. (7 minutes ago)
601 CR LF UTF-8 4 spaces Python 3.7
22:35
22/01/2020
```



```
File Edit View Navigate Code Refactor Run Tools VCS Window Help dictionary [C:\Users\Meer\PycharmProject\dictionary] - expo.py - PyCharm
dictionary expo.py
Project
  dictionary C:\Users\Meer\PycharmProject\
    caesar_cipher.py
    dictionary.p
    expo.py
  External Libraries
  Scratches and Consoles
dictionary.p expo.py
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18             if word in all_words.keys():
19                 print("=====")
20                 print("\t 1. Search Word ")
21                 print("\t 2. Add New Word ")
22                 print("\t 3. Update Word ")
23                 print("\t 4. Delete Word ")
24                 print("\t 5. Display Entire Dictionary ")
25                 print("=====")
26                 Words in the Dictionary:
27                 Absolute value:the magnitude of a real number without regard to its sign.
28                 Cryptography:the art of writing or solving codes.
29                 Database:a structured set of data held in a computer, especially one that is accessible in various ways.
30                 Data:facts and statistics collected together for reference or analysis.
31                 Information:facts provided or learned about something or someone.
32                 Networking:the linking of computers to allow them to operate interactively.
33                 Operator:a person who operates equipment or a machine.
34                 Security:the state of being free from danger or threat.
35                 Monitor:a machine that records or checks something
36                 print("=====")
37                 print("\t 1. Search Word ")
38                 print("\t 2. Add New Word ")
39                 print("\t 3. Update Word ")
40                 print("\t 4. Delete Word ")
41                 print("\t 5. Display Entire Dictionary ")
42                 print("=====")
43
Run expo
=====
1. Search Word
2. Add New Word
3. Update Word
4. Delete Word
5. Display Entire Dictionary
=====
Words in the Dictionary:
Absolute value:the magnitude of a real number without regard to its sign.
Cryptography:the art of writing or solving codes.
Database:a structured set of data held in a computer, especially one that is accessible in various ways.
Data:facts and statistics collected together for reference or analysis.
Information:facts provided or learned about something or someone.
Networking:the linking of computers to allow them to operate interactively.
Operator:a person who operates equipment or a machine.
Security:the state of being free from danger or threat.
Monitor:a machine that records or checks something
=====
1. Search Word
2. Add New Word
3. Update Word
4. Delete Word
5. Display Entire Dictionary
=====
Py Run TODO Terminal Python Console
IDE and Plugin Updates: PyCharm is ready to update. (7 minutes ago)
781 CR LF UTF-8 4 spaces Python 3.7
22:36
22/01/2020
```

## Application

- An English Dictionary helps in better communication
- It is helpful to gain knowledge.
- Useful in Education students can easily learn new words.

## Conclusion

In this Project, I have created a python program in which a dictionary is created. Using this program, we can search word, add word, update and delete words from the dictionary.

## References

- <https://www.programiz.com/python-programming/dictionary>
- [https://www.tutorialspoint.com/python/python\\_dictionary.htm](https://www.tutorialspoint.com/python/python_dictionary.htm)