

word/number	:	morse code	word/number	:	morse code	word/number	:	morse code
A	:	01	M	:	11	Y	:	1011
B	:	1000	N	:	10	Z	:	1100
C	:	1010	O	:	111	0	:	11111
D	:	100	P	:	0110	1	:	01111
E	:	0	Q	:	1101	2	:	00111
F	:	0010	R	:	010	3	:	00011
G	:	110	S	:	000	4	:	00001
H	:	0000	T	:	1	5	:	00000
I	:	00	U	:	001	6	:	10000
J	:	0111	V	:	0001	7	:	11000
K	:	101	W	:	011	8	:	11100
L	:	0100	X	:	1001	9	:	11110

FIT9133 Assignment#2

Morse Code Decoder

Semester#1,2018

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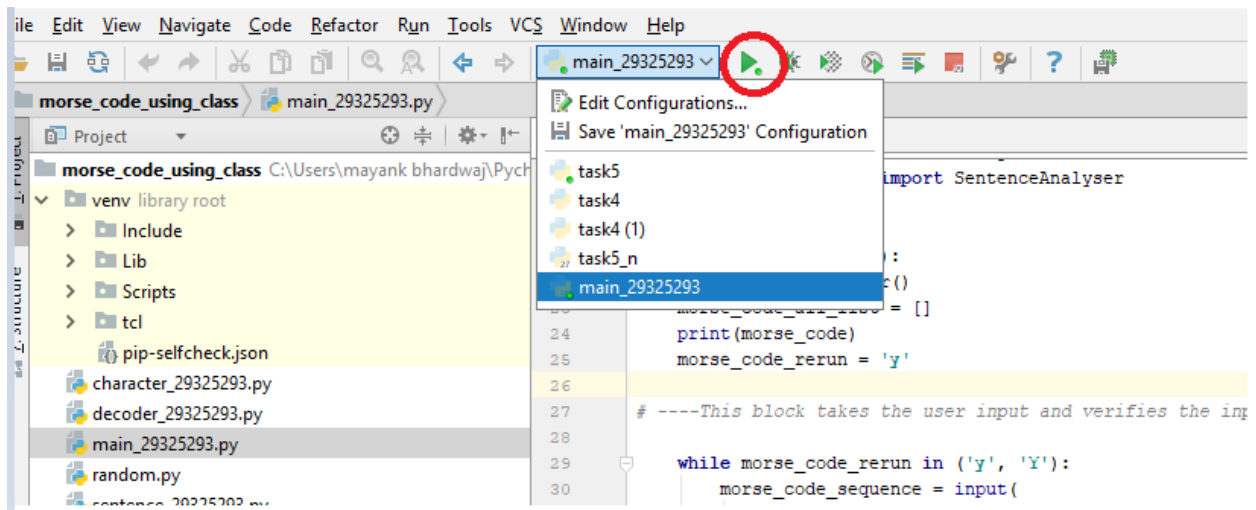
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1 Steps to run the decoder

There are steps to run the Morse code decoder which are given below:

1. Go to the PyCharm and open the code file and click the green play button to run the task1 as shown in the below figure.



2. After that the dictionary got print in the output section showing all the keys and values of the dictionary and will prompt the user to input the Morse code sequence as shown below: It will display the code entered by the user in the output screen.

```

2      : 00111
3      : 00011
4      : 00001
5      : 00000
6      : 10000
7      : 11000
8      : 11100
9      : 11110
?      : 001100
,      : 110011
.      : 010101

please write your Morse Code for decoding(it should comprise of 0, 1 & * ) or type N/leave blank and enter to Quit( and check the decoded morse code ) :
011*0000*111***01*11*00***001100
The entered morse code by you is 011*0000*111***01*11*00***001100
The decoded morse code for 011*0000*111***01*11*00***001100 is WHO AMI ?
Are you sure you want to continue? Type y for yes and enter/type anything and then enter for No :

```

3. To quit from the screen user must either press enter after typing 'n' or leave it blank and then press enter. This will take user to the analyzer levels where user has to press and enter the desired number as shown in below figure.

```
Are you sure you want to continue? Type y for yes and enter/type anything and then enter for No :n
Enter the value to analysed different levels:
1. Total number of character
2. Total number of words
3. Total number of sentences
4. To analyse characters, words and sentences
4
```

4. After that the decoder will display the output according to the input provided. For example if the user has press and enter the 4 the out will be given below:

```
W : 1
H : 1
O : 1
A : 1
M : 1
I : 1
The total number of character occurs in the all morse code are given below :
W : 1
H : 1
O : 1
A : 1
M : 1
I : 1

WHO AMI ? contains the below count of each word:
WHO : 1
AMI : 1
Below is the count of number of words occurs:
WHO : 1
AMI : 1

WHO AMI ? contains the below count of each sentence type:
question : 1
Below is the count of number of sentences occurs:
question : 1

Do you want to choose another option? Press Y or press N or blank enter to exit:|
```

- 5.To exit from the decoder console press the n or leave it blank and press enter.

```
Do you want to choose another option? Press Y or press N or blank enter to exit:

Thank you for using morse code decoder__Mayank Bhardwaj
```

2 Assumption

There are few assumptions that has to be take care by the user while providing the input. Below are the assumptions made while constructing the Morse code decoder in python:

1. The user should provide more than or equal to 1-character length.
2. There should be at least one '***' in the input and code can only contains either '*' or '***'
3. There should not be punctuation in the starting.
4. Code should end with punctuation and no two punctuations should occurs together.
5. There should not be punctuation in between the characters of word.
6. Code only displays the occurrences of characters if present in the decoded Morse code sequence.
7. User must move cursor after the colon where input must be written.