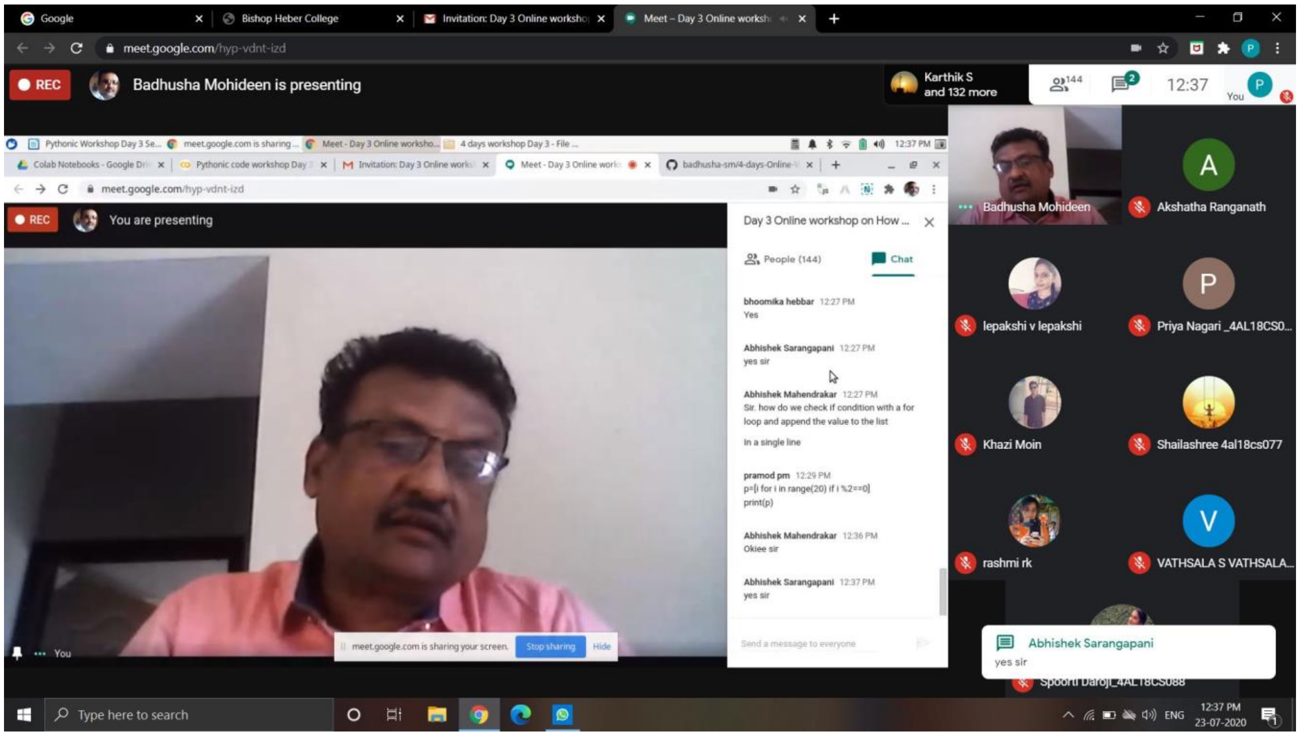
DAILY ASSESSMENT FORMAT

Date:	**24 JULY 2020**	**Name:**	**PAVITHRAN S**
Course:	**PYTHON**	**USN:**	**4AL17EC068**
Topic:	**PYTHONIC WAY**	**Semester & Section:**	**6TH B**
Github Repository:	**Pavithran**		

FORENOON SESSION DETAILS

Image of session



Day 3 Online workshop on How ...

People (144) Chat

bhoomika hebbar 12:27 PM
Yes

Abhishek Sarangapani 12:27 PM
yes sir

Abhishek Mahendrakar 12:27 PM
Sir. how do we check if condition with a for loop and append the value to the list

in a single line

pramod pm 12:29 PM
```
p=[i for i in range(20) if i %2==0]
print(p)
```

Abhishek Mahendrakar 12:36 PM
Okiee sir

Abhishek Sarangapani 12:37 PM
yes sir

Send a message to everyone

Abhishek Sarangapani
yes sir

Report – Report can be typed or hand written for up to two pages.

Modifying the values in a list

Bad:

Remember that assignment never creates a new object. If two or more variables refer to the same list, changing one of them changes them all.

```
# Add three to all list members.

a = [3, 4, 5]

b = a                     # a and b refer to the same list object



for i in range(len(a)):

    a[i] += 3             # b[i] also changes
```

Good:

It's safer to create a new list object and leave the original alone.

```
a = [3, 4, 5]

b = a



# assign the variable "a" to a new list without changing "b"

a = [i + 3 for i in a]
```

Use `enumerate()` keep a count of your place in the list.

```
a = [3, 4, 5]

for i, item in enumerate(a):

    print i, item

# prints

# 0 3

# 1 4

# 2 5
```

The `enumerate()` function has better readability than handling a counter manually. Moreover, it is better optimized for iterators.

Read From a File

Use the `with open` syntax to read from files. This will automatically close files for you.

Bad:

```
f = open('file.txt')

a = f.read()

print a

f.close()
```

Good:

```
with open('file.txt') as f:

    for line in f:

        print line
```

The `with` statement is better because it will ensure you always close the file, even if an exception is raised inside the `with` block.

Line Continuations

When a logical line of code is longer than the accepted limit, you need to split it over multiple physical lines. The Python interpreter will join consecutive lines if the last character of the line is a backslash. This is helpful in some cases, but should usually be avoided because of its fragility: a white space added to the end of the line, after the backslash, will break the code and may have unexpected results.

A better solution is to use parentheses around your elements. Left with an unclosed parenthesis on an end-of-line the Python interpreter will join the next line until the parentheses are closed. The same behavior holds for curly and square braces.

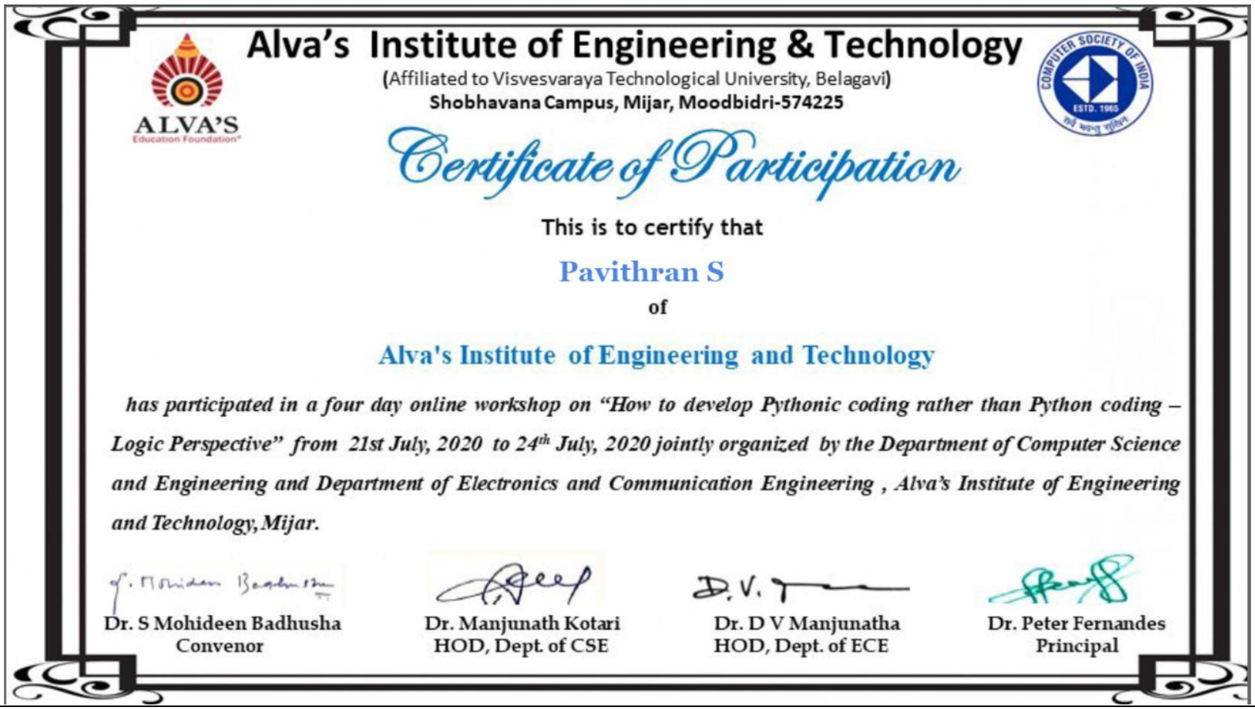
Bad:

```
my_very_big_string = """For a long time I used to go to bed early. Sometimes, \

    when I had put out my candle, my eyes would close so quickly that I had not even \
    time to say “I’m going to sleep.”"""



from some.deep.module.inside.a.module import a_nice_function,
another_nice_function, \

    yet_another_nice_function
```

Good:

```
my_very_big_string = (

    "For a long time I used to go to bed early. Sometimes, "

    "when I had put out my candle, my eyes would close so quickly "

    "that I had not even time to say “I’m going to sleep.”"

)



from some.deep.module.inside.a.module import (

    a_nice_function, another_nice_function, yet_another_nice_function)
```

CERTIFICATE OF COMPLETION:



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Alva's Institute of Engineering & Technology

(Affiliated to Visvesvaraya Technological University, Belagavi)

Shobhavana Campus, Mijar, Moodbidri-574225

COMPUTER SOCIETY OF INDIA ESTD. 1965

Certificate of Participation

This is to certify that

Pavithran S

of

Alva's Institute of Engineering and Technology

has participated in a four day online workshop on “How to develop Pythonic coding rather than Python coding – Logic Perspective” from 21st July, 2020 to 24th July, 2020 jointly organized by the Department of Computer Science and Engineering and Department of Electronics and Communication Engineering , Alva's Institute of Engineering and Technology, Mijar.

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Dr. S Mohideen Badhusha Convenor	Dr. Manjunath Kotari HOD, Dept. of CSE	Dr. D V Manjunatha HOD, Dept. of ECE	Dr. Peter Fernandes Principal