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Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

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Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 10 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-10-04, 23:59 IST.

Assignment submitted on 2023-10-04, 06:06 IST

1) What is the output of the following code? ***1 point***

```
s = 'Hello Everyone'
print(s.lower())
```

- HELLO EVERYONE
- Hello Everyone
- helloeveryone
- hello everyone

Yes, the answer is correct.
Score: 1

Accepted Answers:
hello everyone

2) In flames game when we will stop the iteration over FLAMES? ***1 point***

- When only one letter is left in flames.
- Only once.
- Only the letter remaining times.
- None of the above.

Yes, the answer is correct.

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Score: 1

Accepted Answers:
When only one letter is left in flames.

3) Output of the following code will be? ***1 point***

```
a = ['','h','e','l','','l','o']
print('.'.join(a))
```

- hello
- h.e.l.l.o
- .h.e.l..l.o
- .h.e.l.l.o

Yes, the answer is correct.
Score: 1

Accepted Answers:
.h.e.l..l.o

4) Which code snippet represents replacing all vowels with '_' in a string? ***1 point***

```
s='The joy of Computing'

s.replace('a', '_')
s.replace('e', '_')
s.replace('i', '_')
s.replace('i', '_')
s.replace('o', '_')
s.replace('u', '_')

print(s)
```

```
s='The joy of Computing'

s.replace('_', 'a')
s.replace('_', 'e')
s.replace('_', 'i')
s.replace('_', 'o')
s.replace('_', 'u')

print(s)
```

```
s='The joy of Computing'

s = s.replace('_', 'a')
s = s.replace('_', 'e')
s = s.replace('_', 'i')
s = s.replace('_', 'o')
s = s.replace('_', 'u')

print(s)
```

```
s='The joy of Computing'

s = s.replace('a', '_')
s = s.replace('e', '_')
s = s.replace('i', '_')
s = s.replace('o', '_')
s = s.replace('u', '_')

print(s)
```

Yes, the answer is correct.
Score: 1
Accepted Answers:

```
s='The joy of Computing'

s = s.replace('a', '_')
s = s.replace('e', '_')
s = s.replace('i', '_')
s = s.replace('o', '_')
s = s.replace('u', '_')

print(s)
```

5) What will be the output of the following list slicing. ***1 point***

```
s = 'The Joy of Computing'

print(s[3:12])
```

- 'Joy of C'
- ' Joy of C'
- 'Joy of Co'
- ' Joy of Co'

Yes, the answer is correct.
Score: 1

Accepted Answers:
‘ Joy of C’

6) What does the following code represent? ***1 point***

```
s = 'Sheher mein'
a = 'aeiouAEIOU'
for i in range(len(s)):
    if(s.index(s[i])%2 == 0):
        print(i)
        if(s[i] in a):
            s = s.replace(s[i], '_')


print(s)
```

- Replacing all letters at odd index with ‘_’.
- Replacing all vowels at odd index with ‘_’.
- Replacing all vowels at even index with ‘_’.
- Replacing all letters at even index with ‘_’.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Replacing all vowels at even index with ‘_’.

7) What will be the output of the following code? ***1 point***

```
import numpy as np

b = np.array([[1,2],[3,4]])

print(np.sum(b, axis = 1))
```

- [4 6]
- [3 7]
- [3 4]
- None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
[3 7]

8) What is the correct way to display the transpose of a matrix? ***1 point***

```
import numpy as np

b = np.array([[1,2],[3,4]])

print(b.T())
```

```
import numpy as np

b = np.array([[1,2],[3,4]])

print(b.transpose())
```

```
import numpy as np

b = np.array([[1,2],[3,4]])

print(b.T)
```

```
import numpy as np

b = np.array([[1,2],[3,4]])

print(b.transpose)
```

Yes, the answer is correct.
Score: 1

Accepted Answers:

```
import numpy as np

b = np.array([[1,2],[3,4]])

print(b.transpose())
```

```
import numpy as np

b = np.array([[1,2],[3,4]])

print(b.T)
```

9) Are Lossy and Lossless compressions the same? ***1 point***

- Yes, they are identical.
- No, they are different.
- It depends on the context.
- Not enough information provided.

Yes, the answer is correct.
Score: 1

Accepted Answers:
No, they are different.

10) What is the shape of the following numpy array? ***1 point***

numpy.array([[1,2,3], [4,5,6]])

- (2,3)
- (3,2)
- (3,3)
- (2,2)

Yes, the answer is correct.
Score: 1

Accepted Answers:
(2,3)

11) What will be the output of the following code? ***1 point***

```
1  import numpy as np
2
3  a = np.array([[8,9,20],[10,31,22]])
4  b = np.array([[1,2,3],[4,5,6]])
5
6  print(a-b)
```

- [[6 6 6]
  [6 6 6]]
- [[-7 -7 -17]
  [-6 -26 -16]]
- [[7 7 17]
  [6 26 16]]
- [[9 11 23]
  [14 36 28]]

Yes, the answer is correct.
Score: 1

Accepted Answers:
[[7 7 17]
[6 26 16]]