Week 10 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-04-05, 23:59 IST.

Assignment submitted on 2023-04-05, 22:01 IST

1) Which math problem flames is related to? ***1 point***

- kadane's problem
- Josephus problem
- Conjecture Collatz
- Dijkstra Problem

Yes, the answer is correct.
Score: 1

Accepted Answers:
Josephus problem

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

```
1   s = 'The Joy of Computing'
2
3   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'

3) What will be the output of the following program? ***1 point***

```
s = 'I am amazed'
s.replace('a', 'z')
print(s)
```

- I zm zmzzed
- I zm zmazed
- I am zmzzed
- (selected) I am amazed

Yes, the answer is correct.
Score: 1

Accepted Answers:
I am amazed

4) What are the consequences of image compression? ***1 point***

- [x] Less size
- [x] Lower quality
- [ ] More size
- [ ] Higher quality

Yes, the answer is correct.
Score: 1

Accepted Answers:
Less size
Lower quality

5) what is the output of the following code? ***1 point***

```
import numpy as np

a = np.array([1,2,3,4,5,6,7,8,9,10,11,12])
print(a.reshape(3,4))
```

- (selected)
[[1 2 3 4]
[5 6 7 8]
[9 10 11 12]]
- [[1 2 3]
[4 5 6]
[7 8 9]
[10 11 12]]
- Error
- [[1,2,3,4,5,6]
[7, 8, 9, 10, 11, 12]]

Yes, the answer is correct.
Score: 1

Accepted Answers:
[[1 2 3 4]
[5 6 7 8]
[9 10 11 12]]

6) 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]

7) Amongst which of the following is / are the method of list? ***1 point***

- append()
- extend()
- insert()
- All of the mentioned above

Yes, the answer is correct.
Score: 1

Accepted Answers:
All of the mentioned above

8) The output of the following program will be? ***1 point***

```
word = 'Python'
word[2] = 'n'

print(word)
```

- Pynhon
- Pnthon
- Python
- Error

Yes, the answer is correct.
Score: 1

Accepted Answers:
Error

9) Which of the following is not a method in string? ***1 point***

- lower()
- upper()
- isalpha()
- insert()

Yes, the answer is correct.

Score: 1

Accepted Answers:

insert()

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

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

- HELLO EVERYONE
- Hello Everyone
- helloeveryone
- hello everyone

Yes, the answer is correct.
Score: 1

Accepted Answers:

hello everyone