

<https://swayam.gov.in>[https://swayam.gov.in/nc\\_details/NPTEL](https://swayam.gov.in/nc_details/NPTEL)

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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » The Joy of Computing using Python (course)Course  
outlineAbout NPTEL  
( )How does an  
NPTEL online  
course work?  
( )

Week 0 ( )

Week 1 ( )

Week 2 ( )

Week 3 ( )

week 4 ( )

Week 5 ( )

Week 6 ( )

Week 7 ( )

Week 8 ( )

## Week 10: Assignment 10

Your last recorded submission was on 2024-09-22, 09:33 IST Due date: 2024-10-02, 23:59 IST.

1) What will be the output of the following Python code?

1 point

```
s = "Hello, World!"  
print (s[7:12 ])
```

- ☒ "World"  
☐ "World!"  
☐ "Worl"  
☐ "orld"

2) Which string method would you use to remove all leading and trailing whitespace from a string in Python? 1 point

- ☒ strip()  
☐ split()  
☐ replace()  
☐ join()

3) Given the string s = "PythonProgramming", what does s [::2] return?

1 point

- ☐ "PythonProgramming"  
☐ "Pto rgamn"  
☐ "PyonPormig"  
☒ "PtoPormig"

## Week 9 ()

## Week 10 ()

● FLAMES - Part 01 (unit? unit=214&lesson=215)

○ FLAMES - Part 02 (unit? unit=214&lesson=216)

○ FLAMES - Part 03 (unit? unit=214&lesson=217)

○ FLAMES - Part 04 (unit? unit=214&lesson=218)

○ FLAMES - Part 05 (unit? unit=214&lesson=219)

○ FLAMES - Part 06 (unit? unit=214&lesson=220)

○ Data Compression - Part 01 (unit? unit=214&lesson=221)

○ Data Compression - Part 02 (unit? unit=214&lesson=222)

○ Data Compression - Part 03 (unit? unit=214&lesson=223)

○ Data Compression - Part 04 (unit?

4) Why are names often converted to lowercase and spaces removed when implementing the FLAMES game in Python? **1 point**

- ☐ To increase game difficulty
- ☒ To ensure consistent character comparison
- ☐ Because uppercase letters are not supported in Python strings
- ☐ To encrypt the names for privacy

5) Given the names "Alice" and "Bob", what is the FLAMES result of their relationship according to the FLAMES game? **1 point**

- ☐ Friends
- ☐ Love
- ☒ Affection
- ☐ Marriage
- ☐ Enemy
- ☐ Siblings

6) Given `a = np.array ([1, 2, 3, 4, 5])`, what does `print(a[1:4])` output? **1 point**

- ☐ [1 2 3]
- ☒ [2 3 4]
- ☐ [2 3 4 5]
- ☐ [1 2 3 4]

7) In the NumPy array `arr = np.array ( [ [1,2,3],[4,5,6],[7,8,9] ] )`, what is the value of `arr [1,2]`? **1 point**

- ☐ 5
- ☒ 6
- ☐ 2
- ☐ 8

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

```
s = "abcdef"
print (s[1:5:2])
```

- ☒ "bd"
- ☐ "bcd"
- ☐ "ace"
- ☐ "be"

9) Can numpy be used when working with images in Python? **1 point**

unit=214&lesson=224)

☐ Data  
Compression -  
Part 05 (unit?  
unit=214&lesson=225)

☐ Week 10  
Feedback  
Form: The Joy  
of Computing  
using Python  
(unit?  
unit=214&lesson=226)

☒ **Quiz: Week  
10:  
Assignment  
10  
(assessment?  
name=491)**

☒ Week 10:  
Programming  
Assignment 1  
(/noc24\_cs113/  
progassignment?  
name=486)

☒ Week 10:  
Programming  
Assignment 2  
(/noc24\_cs113/  
progassignment?  
name=487)

☐ Week 10:  
Programming  
Assignment 3  
(/noc24\_cs113/  
progassignment?  
name=490)

**Text  
Transcripts ()**

**Download  
Videos ()**

**Books ()**

☒ Yes  
☐ No

10) When comparing lossy and lossless compression methods, which of the following statements is true?

**1 point**

☐ Lossy compression reduces file size without any loss of quality.  
☒ Lossless compression reduces file size without any loss of quality.

You may submit any number of times before the due date. The final submission will be considered for grading.

**Submit Answers**