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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » The Joy of Computing using Python (course)Announcements ([announcements](#))[About the Course \(https://swayam.gov.in/nd1_noc20_cs35/preview\)](https://swayam.gov.in/nd1_noc20_cs35/preview) [Ask a Question \(forum\)](#)[Progress \(student/home\)](#) [Mentor \(student/mentor\)](#)

Unit 5 - Week 3

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

- Lists Part 1 :
Introduction
(unit?
unit=39&lesson=40)
- Lists Part 2 :
Manipulation
(unit?
unit=39&lesson=41)
- Lists Part 3 :
Operations
(unit?
unit=39&lesson=42)

Assignment 3

The due date for submitting this assignment has passed.

Due on 2020-02-19, 23:59 IST.

Assignment submitted on 2020-02-19, 22:32 IST

- 1) Which of the following displays a code which iterates from numbers 1 to 100, displays **1 point**
“fizz” if the number is divisible by a but not b , displays
“buzz” if the number is divisible by b but not a and displays “fizzbuzz” if the number is divisible
by both a and b . a and b are
inputs taken from the user.

☐

```
1 a = int(input("Enter the value of a"))
2 b= int(input("Enter the value of b"))
3 for i in range(1,101):
4     if (i%a==0):
5         print("fizz")
6     if (i%b==0):
7         print("buzz")
8     else:
9         print("fizzbuzz")
```

- Lists Part 4 :
Slicing (unit?
unit=39&lesson=43)
- Loops and
Conditionals :
Fizzbuzz 01
(unit?
unit=39&lesson=44)
- Loops and
Conditionals :
Fizzbuzz 02
(unit?
unit=39&lesson=45)
- Crowd
Computing -
Just estimate
01 (unit?
unit=39&lesson=46)
- Crowd
Computing -
Just estimate
02 (unit?
unit=39&lesson=47)
- Crowd
Computing -
Just estimate
03 (unit?
unit=39&lesson=48)
- Crowd
Computing -
Just estimate
04 (unit?
unit=39&lesson=49)
- Crowd
Computing -
Just estimate
05 (unit?
unit=39&lesson=50)
- Crowd
Computing -
Just estimate
06 (unit?
unit=39&lesson=51)
- Permutations
- Jumbled
Words 01
(unit?
unit=39&lesson=52)
- Permutations
- Jumbled
Words 02
(unit?
unit=39&lesson=53)

```

1 a = int(input("Enter the value of a"))
2 b= int(input("Enter the value of b"))
3 for i in range(1,101):
4     if (i%a==0):
5         if (i%b!=0):
6             print("fizz")
7     if (i%b==0):
8         if (i%a!=0):
9             print("buzz")
10        else:
11            print("fizzbuzz")

```

```

1 a = int(input("Enter the value of a"))
2 b= int(input("Enter the value of b"))
3 for i in range(1,101):
4     if (i%a==0):
5         if (i%b!=0):
6             print("fizz")
7     if (i%b==0):
8         if (i%a!=0):
9             print("buzz")
10        else:
11            print("fizzbuzz")

```

```

1 a = int(input("Enter the value of a"))
2 b= int(input("Enter the value of b"))
3 for i in range(1,101):
4     if (i%a==0):
5         if (i%b!=0):
6             print("fizz")
7     else:
8         if (i%a!=0):
9             print("buzz")
10        else:
11            print("fizzbuzz")

```

No, the answer is incorrect.

Score: 0

Accepted Answers:

● Permutations
- Jumbled
Words 03
(unit?
unit=39&lesson=54)

● Theory of
Evolution 01
(unit?
unit=39&lesson=55)

● Theory of
Evolution 02
(unit?
unit=39&lesson=56)

● Theory of
Evolution 03
(unit?
unit=39&lesson=57)

● Theory of
Evolution 04
(unit?
unit=39&lesson=58)

● Quiz :
Assignment 3
(assessment?
name=262)

● Programming
Assignment-1:
Loops ,List
and Sum
(/noc20_cs35/progassignment?
name=273)

● Programming
Assignment-2:
Max and Min
(/noc20_cs35/progassignment?
name=274)

● Programming
Assignment-3:
Multiple of 5
(/noc20_cs35/progassignment?
name=275)

○ Week 3
Feedback
(unit?
unit=39&lesson=278)

week 4

Week 5

Week 6

Week 7

```
1 a = int(input("Enter the value of a"))
2 b= int(input("Enter the value of b"))
3 for i in range(1,101):
4     if (i%a==0):
5         if (i%b!=0):
6             print("fizz")
7     if (i%b==0):
8         if (i%a!=0):
9             print("buzz")
10    else:
11        print("fizzbuzz")
```

2) The below code displays

1 point

```
1 for i in range(100):
2     if (i%10==0):
3         print(i)
```

- ☐ all numbers from 1 to 100 which are divisible by 10
- ☒ all numbers from 1 to 99 which are divisible by 10
- ☐ all numbers from 1 to 110 which are divisible by 10
- ☐ none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
none of the above

3) What is the output of the following code?

1 point

```
1 list1=["hi", "we", "are", "the", "elements", "in", "a", "list"]
2 for i in list1:
3     print(list1[i]),
```

- ☐ hi hi hi hi hi hi hi hi
- ☐ hi we are the elements in a list
- ☐ hi
- ☒ error

Yes, the answer is correct.
Score: 1

Accepted Answers:
error

4) What is the output of the following code?

1 point

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[Week 10](#)
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```
1 list1=["hi","we","are","the","elements","in","a","list"]
2 for i in range(4):
3     print(list1[i]),
```

- ☐ hi we are the elements in a list
☐ hi we are the elements
☒ hi we are the
☐ hi we are

Yes, the answer is correct.

Score: 1

Accepted Answers:

hi we are the

5) Which of the following correctly represents a sum function in Python.

1 point

- ☒

```
1 def add(int a, int b):
2     print(a+b)
3 add(2,3)
```
- ☐

```
1 def add(a, b):
2     print(a+b)
3 add(2,3)
```
- ☐

```
1 def add(2, 3):
2     print(a+b)
3 add(a,b)
```
- ☐

```
1 function add(a, b):
2     print(a+b)
3 add(2,3)
```

No, the answer is incorrect.

Score: 0

Accepted Answers:

```
1 def add(a, b):
2     print(a+b)
3 add(2,3)
```

6) Which of the following statements correctly represents a jumbled form of a given word. **1 point**

For example, if the word="lion", one of the plausible outputs can be "oinl".

- ☒ "".join(random.sample(word,len(word)))
☐ "a".join(random.sample(word,len(word)))
☐ "".join(random.sample(word))
☐ join(random.sample(word))

Yes, the answer is correct.

Score: 1

Accepted Answers:

`"".join(random.sample(word,len(word)))`

7) Given a variable word which is a string where no letter is repeated, what does the following code snippet do?

1 point

```
1 import random
2 word=input("Enter a word in which no letter is repeated")
3 l=[]
4 total=1
5 for i in range(1,len(word)+1):
6     total=total*i
7 while (len(l)<total):
8     j="".join(random.sample(word,len(word)))
9     l.append(j)
10 for each in l:
11     print each
```

- ☒ keeps printing the jumbled form of the word in an infinite loop
- ☐ shows all the jumbled forms of the word where some forms might be repeated
- ☐ shows some jumbled forms of the word where some forms might be repeated as well
- ☐ shows all unique jumbled forms of the word including the original word as well

No, the answer is incorrect.

Score: 0

Accepted Answers:

shows some jumbled forms of the word where some forms might be repeated as well

8) Assuming, there is no file named "file.txt" on my computer, what does the following code do?

1 point

```
1 with open("file.txt","w") as f:
2     print(f.read())
3     f.write("Hey! I am writing");
4 f.close()
```

- ☐ Creates a file named file.txt and adds "Hey! I am writing" to it
- ☐ Shows an error because file does not exist
- ☐ Shows an error because file is not opened in the reading mode
- ☒ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

None of the above

9) Assuming, there is no file named "file.txt" on my computer, what does the following code do?

1 point

```
1 with open("fi.txt","w") as f:
2     f.write("Hey! I am writing.");
```

```

3 f.close()
4 with open("fi.txt","w") as f:
5     f.write("Hey I am writing the second line.");
6 f.close()
7 with open("fi.txt","r") as f:
8     print(f.read())
9 f.close()

```

- ☒ Shows error
☐ Displays: Hey I am writing the second line
☐ Displays: Hey! I am writing.Hey I am writing the second line.
☐ Displays: Hey! I am writing.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Displays: Hey I am writing the second line

10) What is the output of the following code?

1 point

```

1 with open("f.txt","w") as myfile:
2     myfile.write("0110");
3 myfile.close()
4
5 with open("f.txt","r") as myfile:
6     l=list(myfile.read());
7     sum1=0
8     for each in l:
9         sum1=sum1+int(each)
10    print(sum1)
11 myfile.close()

```

- ☐ Displays 1
☒ Displays 2
☐ Displays 0
☐ Shows error

Yes, the answer is correct.

Score: 1

Accepted Answers:

Displays 2