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## 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)
- Lists Part 4 : Slicing (unit? unit=39&lesson=43)
- Loops and Conditionals : Fizzbuzz 01

## 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, 22:50 IST

1) Which of the following displays a code which iterates from numbers 1 to 100, displays "fizz" if **1 point** 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")
  
```

(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)

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

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

Theory of  
Evolution 02

```

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")

```

Yes, the answer is correct.

Score: 1

Accepted Answers:

(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**

**Week 8**

**Week 9**

**Week 10**

**Week 11**

**Week 12**

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```

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

Yes, the answer is correct.

Score: 1

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 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**

```

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

```

## Books

- ☐ 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)

```

Yes, the answer is correct.

Score: 1

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

**1 point**

- ☒ "".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

Yes, the answer is correct.

Score: 1

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("file.txt","w") as f:
2     f.write("Hey! I am writing.");
3 f.close()
4 with open("file.txt","w") as f:
5     f.write("Hey I am writing the second line.");
6 f.close()
7 with open("file.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.

Yes, the answer is correct.

Score: 1

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     suml=0
8     for each in l:
9         suml=suml+int(each)
10    print(suml)
11 myfile.close()
```

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Displays 2*