

X


<https://swayam.gov.in>

https://swayam.gov.in/nc_details/NPTEL

reviewer4@nptel.iitm.ac.in ▾

[NPTEL \(https://swayam.gov.in/explorer?ncCode=NPTEL\)](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 7 - Week 5

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

week 4

Week 5

- Introduction to Dictionaries (unit? unit=84&lesson=85)
- Speech to Text : No need to write 01 (unit? unit=84&lesson=86)
- Speech to Text : No need to write 02 (unit? unit=84&lesson=87)
- Speech to Text : No need to write

Assignment 5

The due date for submitting this assignment has passed. **Due on 2020-03-04, 23:59 IST.**
As per our records you have not submitted this assignment.

1) What does the following code do?

1 point

```

1 import random
2 def get_gates () :
3     r=random.randint(0,2)
4     r1=random.randint(0,2)
5     while (r==r1) :
6         r=random.randint(0,2)
7     l=['x','x','x']
8     l[r]='c'
9     l[r1]='c'
10    ind=[0,1,2]
11    for each in ind:
12        if (each!=r1 and each!=r):
13            l[each]='g'
14    print(l)
15
16 get_gates ()

```

- creates a list where two random elements are 'c' and the other element is 'g'
- creates a list where two random elements are 'g' and the other element is 'c'
- creates a list where one random elements is 'c' and the other element is 'g'
- none of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

03 (unit?
unit=84&lesson=88)

Monte Hall : 3
doors and a
twist 01 (unit?
unit=84&lesson=89)

Monte Hall : 3
doors and a
twist 02 (unit?
unit=84&lesson=90)

Rock, Paper
and Scissor :
Cheating not
allowed !! 01
(unit?
unit=84&lesson=91)

Rock, Paper
and Scissor :
Cheating not
allowed !! 02
(unit?
unit=84&lesson=92)

Rock, Paper
and Scissor :
Cheating not
allowed !! 03
(unit?
unit=84&lesson=93)

Rock, Paper
and Scissor :
Cheating not
allowed !! 04
(unit?
unit=84&lesson=94)

Sorting and
Searching : 20
questions game
01 (unit?
unit=84&lesson=95)

Sorting and
Searching : 20
questions game
02 (unit?
unit=84&lesson=96)

Sorting and
Searching : 20
questions game
03 (unit?
unit=84&lesson=97)

Sorting and
Searching : 20
questions game
04 (unit?
unit=84&lesson=98)

Sorting and
Searching : 20

creates a list where two random elements are 'c' and the other element is 'g'

2) Which of the random experiments from the options does the code represent? **1 point**

```
1 import random
2 while (1):
3     r=random.randint(0,1)
4     if (r==0):
5         print('tossing')
6         break
7     else:
8         print('tossing')
```

- Tossing a coin once
- Tossing a coin infinite times
- Tossing a coin repeatedly till a head is encountered
- none of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

none of the above

3) Which of the random experiments from the options does the code represent? **1 point**

```
1 import random
2 p1=["rock","paper","scissor"]
3 p2=["rock","paper","scissor"]
4 c1=random.choice(p1)
5 c2=random.choice(p2)
6 if (c1==c2):
7     print("SUCCESS")
8 else:
9     print("FAIL")
```

- Prints a success when both people select the same object
- Prints a success when both people select "rock"
- Prints a success when both people select different objects
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Prints a success when both people select the same object

4) For the code below, which of the statement in the options is false? **1 point**

```
1 t=[]
2 for i in range(10):
3     a=int(input("Enter the number you want to insert in the list"))
4     if (len(t)==0):
5         t.append(a)
6     else:
7         if (a>t[len(t)-1]):
8             t.append(a)
9     print(t)
```

questions game
05 (unit?
unit=84&lesson=99)

Sorting and
Searching : 20
questions game
06 (unit?
unit=84&lesson=100)

Sorting and
Searching : 20
questions game
07 (unit?
unit=84&lesson=101)

Sorting and
Searching : 20
questions game
08 (unit?
unit=84&lesson=102)

Quiz :
Assignment 5
(assessment?
name=264)

Programming
Assignment-1:
Cab and walk
(/noc20_cs35/progassignment?
name=291)

Programming
Assignment-2:
End-Sort
(/noc20_cs35/progassignment?
name=292)

Programming
Assignment-3:
Semi Primes
(/noc20_cs35/progassignment?
name=293)

Week 5
Feedback (unit?
unit=84&lesson=294)

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

- The loop runs exactly 10 times
- All the integers taken as input from the user need not be in the list l
- The list l consists of exactly 10 elements at the end of the program
- The list l printed in the last line is a sorted list

No, the answer is incorrect.
Score: 0

Accepted Answers:

The list l consists of exactly 10 elements at the end of the program

5) Which of the random experiments from the options does the code represent? **1 point**

```
1 import random
2 bins={}
3 for i in range(1,11):
4     bins[i]=0
5 for i in range(1,101):
6     r = random.randint(1,10)
7     bins[r]=bins[r]+1
8 print(bins)
```

- Placing 100 bins and then throwing 10 balls randomly in these bins
- Placing 10 bins and then throwing 100 balls randomly in these bins
- Placing 10 bins and 10 balls and then throwing 10 balls randomly in these bins
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:

Placing 10 bins and then throwing 100 balls randomly in these bins

6) Assuming that "bins" represents a dictionary where key is the number of a bin and value represents the number of balls present in the corresponding bin, what is the output of the following code? **1 point**

```
1 min_=0
2 min_i=-1
3 for each in bins:
4     if (bins[each]>min_):
5         min_i=each
6         min_=bins[each]
7 print(min_i)
```

- Displays the maximum number of balls present in any bin
- Displays the number of the bin containing maximum balls
- Displays the number of the bin containing minimum balls
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:

Displays the number of the bin containing maximum balls

7) Assuming that "bins" represents a dictionary where key is the number of a bin and value represents the number of balls present in the corresponding bin, what is the output of the following code? **1 point**

Text Transcripts

Download Videos

Books

```

1 def mbin():
2     max_=0
3     max_i=-1
4     for each in bins:
5         if (bins[each]>max_):
6             max_i=each
7             max_=bins[each]
8     print(max_i)
9     return max_i
10
11 while(len(bins)>0):
12     b=mbin()
13     del(bins[b])

```

- Displays the maximum number of balls present in any bin
- Displays bins in the ascending order of the number of balls they have
- Displays bins in the descending order of the number of balls they have
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Displays bins in the descending order of the number of balls they have

8)

```

1 def find(list1,num):
2     for each in list1:
3         if(each!=num):
4             print(each)
5         else:
6             break
7
8 t=[]
9 for i in range(100000):
10     t.append(i)
11
12 find(t,99999)

```

1 point

The above code generates numbers from

- 0 to 99999
- 0 to 100000
- 0 to 99998
- 1 to 99998

No, the answer is incorrect.

Score: 0

Accepted Answers:

0 to 99998

9) Which of the random experiments from the options does the code represent?

1 point

```

1 import random
2 while (1):
3     r=random.randint(1,6)
4     if (r%2==0):
5         print('rolling')
6         break
7     else:
8         print('rolling')

```

- Rolling a dice once
- Rolling a dice infinite times
- Rolling a dice repeatedly till an odd number is encountered
- Rolling a dice repeatedly till an even number is encountered

No, the answer is incorrect.

Score: 0

Accepted Answers:

Rolling a dice repeatedly till an even number is encountered

10) Assuming that "bins" represents a dictionary where key is the number of a bin and value represents the number of balls present in the corresponding bin, what plot does the following code generate? **1 point**

```

1 import matplotlib.pyplot as plt
2 val=bins.values()
3 x=[]
4 y=[]
5 print(val)
6 for each in list(set(val)):
7     x.append(each)
8     y.append(val.count(each))
9     print(each, val.count(each))
10 plt.plot(x,y)
11 plt.show()

```

- X axis: Number of balls, Y axis: Number of bins having as many balls as specified by X axis
- X axis: Bin number, Y axis: Number of balls in the bin whose number is specified by X axis
- X axis: Ball number, Y axis: The bin number which contained the ball whose number is specified by the X axis
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

None of the above

