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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)

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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.

Assignment submitted on 2020-03-04, 00:36 IST

1) What does the following code do?

1 point

- 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

Yes, the answer is correct. Score: 1

```
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

```
Accepted Answers: 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?

```
import random
while (1):
    r=random.randint(0,1)
    if (r==0):
        print('tossing')
        break
    else:
        print('tossing')
```

- Tossing a coin once
- Tossing a coin infinite times
- Tossing a coin repeatedly till a head in 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 point

```
import random
p1=["rock", "paper", "scissor"]
p2=["rock", "paper", "scissor"]
c1=random.choice(p1)
c2=random.choice(p2)
if(c1==c2):
print("SUCCESS")
else:
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

Yes, the answer is correct.

Score: 1

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

```
questions game
   05 (unit?
                         1 t = []
   unit=84&lesson=99)
                          2 for i in range(10):
                              a=int(input("Enter the number you want to insert in the list"))
 Sorting and
                              if(len(t) == 0):
   Searching: 20
   questions game
                                 t.append(a)
   06 (unit?
                              else:
   unit=84&lesson=100)
                                 if (a>t [len (t)-1]):
                                    t.append(a)
 Sorting and
                          print(t)
   Searching: 20
   questions game
                            The loop runs exactly 10 times
   07 (unit?
   unit=84&lesson=101)
                            All the integers taken as input from the user need not be in the list I
                            The list I consists of exactly 10 elements at the end of the program
 Sorting and
   Searching: 20
                            The list I printed in the last line is a sorted list
   questions game
                           Yes, the answer is correct.
   08 (unit?
                           Score: 1
   unit=84&lesson=102)
                           Accepted Answers:
                           The list I consists of exactly 10 elements at the end of the program
 Quiz :
   Assignment 5
                          5) Which of the random experiments from the options does the code represent?
                                                                                                                1 point
   (assessment?
   name=264)
                                       import random
 Programming
                                       2 bins = { }
   Assignment-1:
                                       _3 for i in range(1,11):
   Cab and walk
   (/noc20 cs35/progassignment?
                                            bins [i]=0
   name=291)
                                       s for i in range (1,101):
                                            r = random.randint(1,10)
 Programming
                                            bins[r] = bins[r] + 1
   Assignment-2:
   End-Sort
                                       s print(bins)
   (/noc20 cs35/progassignment?
   name=292)
                            Placing 100 bins and then throwing 10 balls randomly in these bins
 Programming
                            Placing 10 bins and then throwing 100 balls randomly in these bins
   Assignment-3:
                            Placing 10 bins and 10 balls and then throwing 10 balls randomly in these bins
   Semi Primes
   (/noc20_cs35/progassignment?) None of the above
   name=293)
                           Yes, the answer is correct.
                           Score: 1
 ○ Week 5
                           Accepted Answers:
   Feedback (unit?
                           Placing 10 bins and then throwing 100 balls randomly in these bins
   unit=84&lesson=294)
                          6) Assuming that "bins" represents a dictionary where key is the number of a bin and value
                                                                                                                1 point
Week 6
                        represents the number of balls present in the
                              corresponding bin, what is the output of the following code?
Week 7
                                       _ min_=0
Week 8
                                       2 min i=-1
                                       3 for each in bins:
Week 9
                                             if (bins [each]>min_):
                                                min_i=each
Week 10
                                               min_=bins[each]
                                       print(min_i)
Week 11
                            Displays the maximum number of balls present in any bin
Week 12
                            Displays the number of the bin containing maximum balls
```

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```
Displays the number of the bin containing minimum balls
```

None of the above

Yes, the answer is correct.

Score: 1

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?

```
def mbin():
    max_=0
    max_i=-1
for each in bins:
    if (bins[each]>max_):
        max_i=each
        max_=bins[each]
    print(max_i)
    return max_i

while(len(bins)>0):
    b=mbin()
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

Yes, the answer is correct.

Score: 1

Accepted Answers:

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

```
8)

def find(list1, num):

for each in list1:
```

```
for each in list1:

if (each!=num):

print(each)

else:
break

t = []

for i in range(100000):

t.append(i)

find(t,99999)
```

The above code generates numbers from

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

1 point

```
Yes, the answer is correct.
  Score: 1
  Accepted Answers:
  0 to 99998
 9) Which of the random experiments from the options does the code represent?
                                                                                    1 point
              import random
              while (1):
                   r=random.randint(1,6)
                   if (r\%2==0):
                      print('rolling')
                      break
                   else:
                      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
  Yes, the answer is correct.
  Score: 1
  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
                                                                                     1 point
represents the number of balls present in the
     corresponding bin, what plot does the following code generate?
               import matplotlib.pyplot as plt
              val=bins.values()
               3 X = []
              4 y=[]
               s print(val)
              6 for each in list(set(val)):
                   x.append(each)
                   y.append(val.count(each))
                    print(each, val.count(each))
              plt.plot(x,y)
              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
  Yes, the answer is correct.
  Score: 1
  Accepted Answers:
  None of the above
```