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 NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » The Joy of Computing using Python (course)


Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

week 4

- Practice is the key (unit? unit=78&lesson=79)
- Magic Square: Hit and Trial 01 (unit? unit=78&lesson=80)
- Magic Square: Hit and Trial 02 (unit? unit=78&lesson=81)
- Magic Square: Hit and Trial 03

Week 4: Assignment 4

The due date for submitting this assignment has passed.

Due on 2021-09-01, 23:59 IST.

Assignment submitted on 2021-08-31, 06:07 IST

1) What is the magic constant or magic sum of a magic square of size 11?

1 point

- ☒ 671
☐ 121
☐ It is not possible to find
☐ Magic squares only exists for even size

Yes, the answer is correct.

Score: 1

Accepted Answers:

671

2) In magic square, the first number will be stored at position $(n/2, n-1)$. Let this position be (i, j) . The second number will be stored at position $(i+1, j-1)$. State whether the following statement is true or false.

1 point

- ☐ True
☒ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

(unit?
unit=78&lesson=82)

● Magic Square:
Hit and Trial 04
(unit?
unit=78&lesson=83)

● Magic Square:
Hit and Trial 05
(unit?
unit=78&lesson=84)

○ Let's program
and play (unit?
unit=78&lesson=85)

○ Dobble Game -
Spot the
similarity 01
(unit?
unit=78&lesson=86)

○ Dobble Game -
Spot the
similarity 02
(unit?
unit=78&lesson=87)

○ Dobble Game -
Spot the
similarity 03
(unit?
unit=78&lesson=88)

○ Dobble Game -
Spot the
similarity 04
(unit?
unit=78&lesson=89)

○ What is your
date of birth?
(unit?
unit=78&lesson=90)

○ Birthday
Paradox - Find
your twin 01
(unit?
unit=78&lesson=91)

○ Birthday
Paradox - Find
your twin 02
(unit?
unit=78&lesson=92)

○ Birthday
Paradox - Find

3) The below given matrix is a magic square. State whether the following statement is true **1 point** or false

20	12	4	45	37	29	28
11	3	44	36	35	27	19
2	43	42	34	26	18	10
49	41	33	25	17	9	1
40	32	24	16	8	7	48
31	23	15	14	6	47	39
22	21	13	5	46	38	30

☐ False

☒ True

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

4) What will the output of the following program be?

1 point

```
l=[31, 0, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31]
a=1900
if(a%4==0 and a%100!=0 or a%400==0):
    l.insert(1,29)
else:
    l.insert(1,28)

print("In the year 1900, february has",l[1],"days")
```

☒ In the year 1900, february has 28 days

☐ In the year 1900, february has 29 days

☐ In the year 1900, february has 0 days

☐ It will throw an error

Yes, the answer is correct.

Score: 1

Accepted Answers:

In the year 1900, february has 28 days

5) Consider today's date to be 06-06-2021 and the day after tomorrow is tuesday.. What **1 point** will be the output of the following program?

your twin 03
(unit?
unit=78&lesson=93)

☐ Birthday
Paradox - Find
your twin 04
(unit?
unit=78&lesson=94)

☐ Birthday
Paradox - Find
your twin 05
(unit?
unit=78&lesson=95)

☐ What's your
favourite
movie? (unit?
unit=78&lesson=96)

☐ Guess the
Movie Name 01
(unit?
unit=78&lesson=97)

☐ Guess the
Movie Name 02
(unit?
unit=78&lesson=98)

☐ Guess the
Movie Name 03
(unit?
unit=78&lesson=99)

☐ Guess the
Movie Name 04
(unit?
unit=78&lesson=100)

☐ Guess the
Movie Name 05
(unit?
unit=78&lesson=101)

☐ Guess the
Movie Name 06
(unit?
unit=78&lesson=102)

☒ **Quiz: Week 4:
Assignment 4
(assessment?
name=295)**

☒ **Week 4:
Programming
Assignment 1 -
Factorial**

```
import datetime
x=datetime.datetime.now()
print(x.strftime("%W"))
print(x.strftime("%w"))
```

☐

22

0

☐

0

22

☐

Monday

29

☐

29

Tuesday

Yes, the answer is correct.

Score: 1

Accepted Answers:

22

0

6) What will the following program do?

1 point

```
a=input("Enter any positive number\n")
p=int(a)
sum=0
while(p!=0):
    sum=sum+p%10
    p//=10

print(sum)
```

☐ Print the sum of digits of a given number

☐ Print the number by dividing it by 10

(/noc21_cs75/progassignment?name=299) ☐ Print the reverse of the number

☐ None of the above

Week 4:

Programming
Assignment 2 -
Multiples

(/noc21_cs75/progassignment?name=300)

Week 4:

Programming
Assignment 3 -
Arrangements

(/noc21_cs75/progassignment?name=301)

Week 4

Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=78&lesson=103)

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Text Transcripts

Download
Videos

Live Session

October 10
Programming
test - Session 1
(10AM to 11AM)

Yes, the answer is correct.

Score: 1

Accepted Answers:

Print the sum of digits of a given number

7) Which program will choose an element from the below list and display it in jumbled order?

1 point

```
import random
l=["abc","cde","efg","hij"]
a=random.choice(l)
print("".join(random.sample(a,len(a))))
```

```
l=["abc","cde","efg","hij"]
a=random.choice(l)
print("".join(random.sample(a,len(a))))
```

```
import random
l=["abc","cde","efg","hij"]
a=random.Random(l)
print(a)
print("".join(random.sample(a,len(a))))
```

October 10
Programming
test - Session 2
(8PM to 9PM)



```
import random
l=["abc","cde","efg","hij"]
a=random.sample(l)
print(a)
print("".join(random.choice(a,len(a))))
```

Yes, the answer is correct.

Score: 1

Accepted Answers:



```
import random
l=["abc","cde","efg","hij"]
a=random.choice(l)
print("".join(random.sample(a,len(a))))
```

8) There are a total of 100 cards of 25 different colors. How many minimum numbers of draws are required to guarantee that at least two drawn cards have the same color? **1 point**

- ☐ 100
☒ 26
☐ 25
☐ 50

Yes, the answer is correct.

Score: 1

Accepted Answers:

26

9) What does the following code snippet in python compute?

1 point

```
a=0
b=1
print(a,end=" ")
for i in range(0,15,1):
    print(b,end=" ")
    a,b=b,a+b
```

- ☐ Factorial of numbers from 0 to 15
- ☒ Fibonacci series
- ☐ None
- ☐ Sequence of numbers from 0 to 15

Yes, the answer is correct.

Score: 1

Accepted Answers:

Fibonacci series

10) Dobble game has a deck of 55 cards, each printed with eight different symbols. Any two cards always share one matching symbol only. State whether the above statement is true or false **1 point**

- ☒ True
- ☐ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True