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

Announcements (announcements)

**About the Course (preview)**

Ask a Question (forum)

Progress (student/home)

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## Unit 3 - Week 2

### Course outline

#### How does an NPTEL online course work?

#### Week 1

#### Week 2

- ☐ Introduction to Anaconda (unit?unit=37&lesson=38)
- ☐ Installation of Anaconda (unit?unit=37&lesson=39)
- ☐ Introduction to Spyder IDE (unit?unit=37&lesson=40)
- ☐ Printing statements in Python (unit?unit=37&lesson=41)
- ☐ Understanding Variables in Python (unit?unit=37&lesson=42)
- ☐ Executing a sequence of instructions in the Console (unit?unit=37&lesson=43)
- ☐ Writing your First Program (unit?unit=37&lesson=44)
- ☐ Taking inputs from the user (unit?unit=37&lesson=45)
- ☐ Discount Calculation (unit?unit=37&lesson=46)
- ☐ Motivation to if condition (unit?unit=37&lesson=47)
- ☐ A reminder on how to deal with numbers (unit?unit=37&lesson=48)
- ☐ Understanding if condition's working (unit?unit=37&lesson=49)
- ☐ Realizing the importance of syntax and indentation (unit?unit=37&lesson=50)
- ☐ Introductions to loops (unit?unit=37&lesson=51)
- ☐ Loops: Sum of numbers (unit?unit=37&lesson=52)
- ☐ Loops: Sum of numbers (continued) (unit?unit=37&lesson=53)
- ☐ Loops: Multiplication Tables (unit?unit=37&lesson=54)

## Assignment 2

Assignment not submitted

Due date: 2020-09-30, 23:59 IST.

**NOTE: Python 3.7 has been used for this Assignment**

1) Identify the statement with an invalid syntax. Expected Output: Stay Safe! Friends

1 point

- ☐ print("Stay Safe!", "Friends")
- ☐ print("Stay Safe! Friends")
- ☐ print('Stay Safe! Friends')
- ☒ print(Stay Safe Friends)

2) Predict the output for the following code that checks the eligibility to vote.

1 point

```
age=19
if age>=18
    print('Hey! You are eligible to vote')
else:
    print('OOPS! You are not eligible to vote')
```

- ☐ Hey! You are eligible to vote
- ☐ OOPS! You are not eligible to vote
- ☒ Syntax Error: invalid syntax
- ☐ Invalid age

3) What is the output of the following code?

1 point

```
def func():
    print()
    c=10
    i=0
    while (i <=5):
        j=1
        while (j <=20):
            print(' ',end=' ')
            if (j>=10-i and j <=10+i):
                print('*',end=" ")
            else:
                print(' ',end=" ")
            j=j+1
        print('\n')
        i=i+1

func()
```

☐ Introduction to While Loop  
(unit?unit=37&lesson=55)

☒ Programming Assignment  
1: Printing a message  
(/noc20\_cs83/progassignment?  
name=275)

☒ Programming Assignment  
2: Currency Conversion  
(/noc20\_cs83/progassignment?  
name=276)

☒ Programming Assignment  
3: Profit or Loss  
(/noc20\_cs83/progassignment?  
name=277)

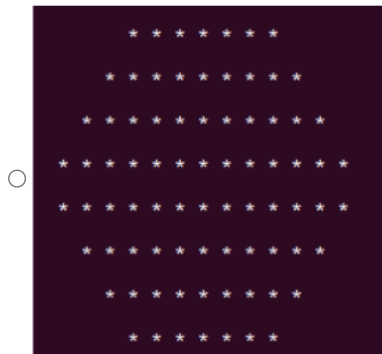
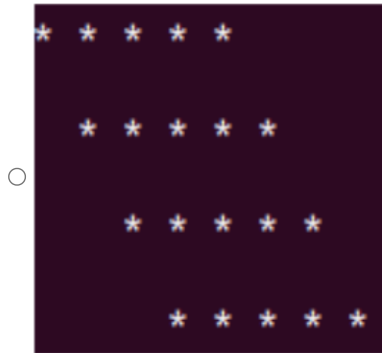
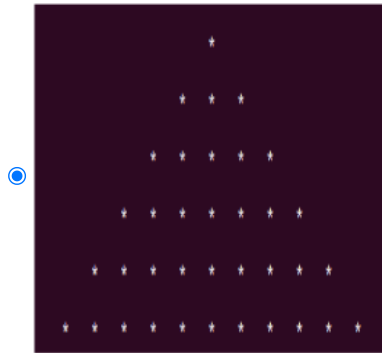
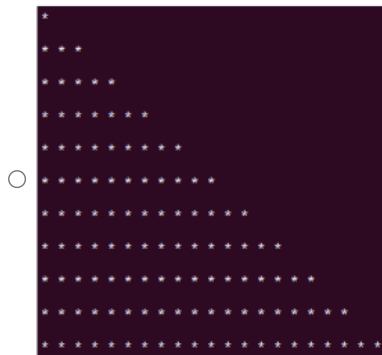
☐ Quiz : Assignment 2  
(assessment?name=294)

☐ Week 2 Feedback Form :  
The Joy of Computing using  
Python (unit?  
unit=37&lesson=56)

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4) With n as input, the code below computes

```
def mul(num):
    if (num==1):
        return(-1)
    return(-1*mul(num-1))
n=int(input("Enter the value of n"))
print(mul(n))
```

- ☐  $-1 \times n$
- ☐  $-1 + n$
- ☒  $(-1)^n$
- ☐  $n^{(-1)}$

1 point

5) For the given code, what is the value of 'total' variable at the end of execution?

1 point

```
m1 = '98'
m2 = '79'
m3 = '87'
total = m1 + m2 + m3
print(total)
```

- ☐ syntax error
- ☐ 264
- ☐ 988779
- ☒ 987987

6) Replace the given set of instructions with a for loop.

1 point

```
n=2
print(n)
n=n*2
print(n)
n=n*2
print(n)
n=n*2
print(n)
n=n*2
print(n)
```

- ☐

```
for i in range(1,6):
    print(pow(2,i))
```
- ☐

```
for i in range(1,6):
    print(pow(i,2))
```
- ☒

```
for i in range(1,6):
    print(pow(2,i))
```
- ☐

```
for i in range(1,5):
    print(pow(2,i))
```

7) Which of the following is the output for the given code?

1 point

```
n=5;print(n+5);print(n+5);print(n+5);print(n+5);
```

- ☐ 10 10 10 10
- ☐ 5 10 15 20
- ☒ 10  
10  
10  
10  
5
- ☐ 10  
15  
20

8) Identify the appropriate output.

1 point

```
name='Avani Chaturvedi!'
print('Hello!', name, 'How are you?')
print('Proud to meet you!')
```

- ☐ Hello! Avani Chaturvedi! How are you? Proud to meet you!
- ☐ Hello! Avani Chaturvedi!  
How are you?  
Proud to meet you!
- ☐ Hello!  
Avani Chaturvedi!  
How are you?  
Proud to meet you!

- ☒ Hello! Avani Chaturvedi! How are you?  
Proud to meet you!

9) What happens if we key in number 5 for the variable c in the below code?

1 point

```
c=1
while(c==1):
    print('hello ')
    c=int(input('Enter choice:0/1:'))
```

- ☒ Loop terminates  
☐ Continues execution  
☐ Program restarts execution  
☐ None of the above

10) What is the output of the following code?

1 point

```
d=-20
while(d>0):
    print(d)
    if(d<0):
        print(-1*d)
```

- ☐ Infinite loop  
☐ -20 20  
☒ 20  
☐ -20

You may submit any number of times before the due date. The final submission will be considered for grading.

**Submit Answers**