

MODULE - 3 ASSIGNMENT

Conditional Statements

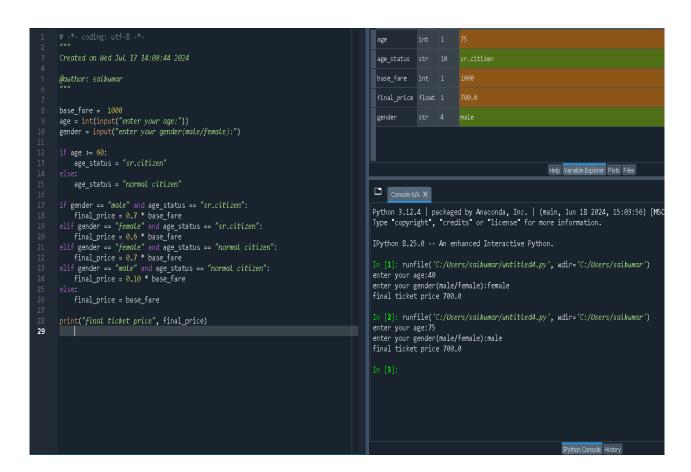
Please write Python Programs for all the problems .

- 1. Take a variable 'age' which is of positive value and check the following:
 - a. If age is less than 10, print "Children".
 - b. If age is more than 60, print 'senior citizens'
 - c. If it is in between 10 and 60, print 'normal citizen'



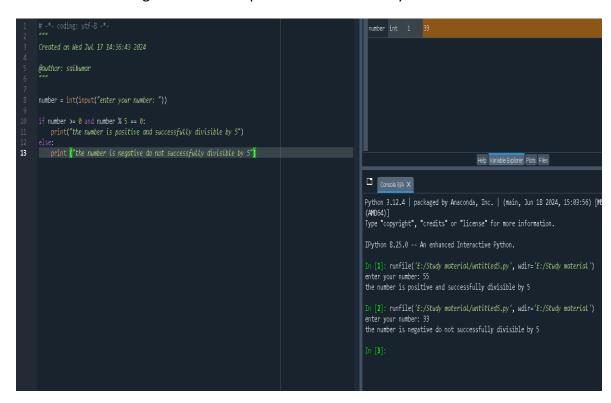
- 2. Find the final train ticket price with the following conditions.
 - a. If male and sr.citizen, 70% of fare is applicable
 - b. If female and sr.citizen, 50% of fare is applicable.
 - c. If female and normal citizen, 70% of fare is applicable
 - d. If male and normal citizen, 100% of fare is applicable

[Hint: First check for the gender, then calculate the fare based on age factor.. For both Male and Female ,consider them as sr.citizens if their age >=60]





3. Check whether the given number is positive and divisible by 5 or not.



Conditional Statements

Please implement Python coding for all the problems.

1. A) list1=[1,5.5,(10+20j),'data science'].. Print default functions and parameters exist in list1.



```
list1 = [1,5.5,(10+20j), 'data science']
print(dir(list1))

Console 9/A X

Python 3.12.4 | packaged by Anaconda, Inc. | (main, Jun 18 2024, 15:03:56)
[MSC v.1929 64 bit (AMD64)]
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IPython 8.25.0 -- An enhanced Interactive Python.

In [1]: list1 = [1,5.5,(10+20j), 'data science']

In [2]: print(dir(list1))
['_add_', _class__, _class_getitem__', _contains__',
    _delattr__', _delitem__', _dir__', _doc__', _eq__', _format__',
    _ge__', _getattribute__', _getitem__', _getstate__, _gt__',
    _hash__', _iadd__', '_imul__', _init__', _init_subclass__',
    _'iter__', _le__', _len__', _lt__', _mul__', _new__',
    _reduce__', _reduce_ex__', _repr__', _reversed__', _rmul__',
    _setattr__', _setitem__', _sizeof__', _str__', _subclasshook__',
    'append', 'clear', 'copy', 'count', 'extend', 'index', 'insert', 'pop',
    'remove', 'reverse', 'sort']
```

B) How do we create a sequence of numbers in Python?



C) Read the input from keyboard and print a sequence of numbers up to that number



```
number = int(input("enter your number: "))

seq = range(number)
print(list(seq))

Console 12/A ×

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IPython 8.25.0 -- An enhanced Interactive Python.

In [1]: runfile('E:/Study material/untitled5.py', wdir='E:/Study material') enter your number: 20
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19]
```

Create 2 lists.. one list contains 10 numbers (list1=[0,1,2,3....9]) and other list contains words of those 10 numbers (list2=['zero','one','two',....,'nine']).
 Create a dictionary such that list2 are keys and list 1 are values..



3. Consider a list1 [3,4,5,6,7,8]. Create a new list2 such that Add 10 to the even number and multiply with 5 if it is an odd number in the list1..

```
1  list1 = [3, 4, 5, 6, 7, 8]
2  list2 = []
3
4  for num in list1:
5    if num%2 == 0:
6        list2.append(num+10)
7    else:
8        list2.append(num*5)
9  print(list2)

10
11

Console 15/A ×

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IPython 8.25.0 -- An enhanced Interactive Python.
In [1]: runfile('E:/Study materiat/untitled5.py', wdir='E:/Study materiat')
[15, 14, 25, 16, 35, 18]
```

- 4. Write a simple user defined function that greets a person in such a way that:
 - i) It should accept both the name of the person and message you want to deliver.
 - ii) If no message is provided, it should greet a default message 'How are you'

Ex: Hello ---xxxx---, How are you -1 default message.

Ex: Hello ---xxxx---, --xx your message xx---

```
def greet_person(name, message='How are you'):
    print(f'Hello{name}, {message}')

greet_person('saikumar', 'hope you have a great day')
greet_person('venkatsai')

Console 16/A ×

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IPython 8.25.0 -- An enhanced Interactive Python.

In [1]: runfile('E:/Study materiat/untitled5.py', wdir='E:/Study materiat')
Hellosaikumar, hope you have a great day
Hellovenkatsai, How are you
```

