Learn2grow-December 2020

Python assessment:

- Write a Python program to accept a filename from the user, check whether a file exists and print the extension of that.
- Type casting: Read the input from user and check the date type and try to implement type casting of the value
- 3. Variable assign value to variable and print the variable.
- 4. String:
- Write a Python program to replace a string "Python" with "Java" and "Java" with "Python" in a given string
 - 2. Write a Python program to calculate the length of a string
 - 3, write a Python program to reverse a string

5. List :

- 1. Create a list and sum all the items in a list.
- 2. Write a Python program to convert a list of characters into a string

6. Dictionary:

- 1. Write a Python script to concatenate two dictionaries to create a new one.
- 2. Write a Python script to check whether a given key already exists in a dictionary.

7. Tuple:

Write a Python program to create a tuple

8. Control and looping:

- 1. Print the number from 1 to 10 using while
- 2. Write the program to break the loop if user given as input, if y continue
- 3. Write a Python program to iterate over dictionaries using for loops
- 4. Read two value and check which number is greater.

9 . File handling:

Write a program to read the file and print line by line, append in file and close the file.

1.Accepting file name and checking the extension:

```
File Edit Format Run Options Window Help
import os.path
from os import path

def search(filename):
    ext=filename.split(".")
    a=str(path.exists(filename))
    if (a=='True'):
        print("file extension is '.",ext[-1],"'")
    else:
        print("file not found")
fname=input("enter filename")
search(fname)

addition: C./votio/Arababi/Deoxcop/pyi.py
enter filenameFile handling.txt
file extension is '. txt '
>>>>
```

2. Type casting

3.Variable

```
>>> variable=123
>>> print(variable)
123
```

4.Strings

```
>>> str="l.python,2.java"
>>> new=str.replace("java","%temp%").replace("python","java").replace("%temp%","python")
>>> print(str)
l.python,2.java
>>> print(new)
l.java,2.python
>>> len(new)
15
>>> x="hello world"[::-1]
>>> print(x)
dlrow olleh
>>>
```

5.List

```
>>> list=[100,20,70]
>>> sum(list)
190
>>> listl=['a','b','c','d']
>>> string=''.join(listl)
>>> print(string)
abcd
>>>
```

6.Dictionary

7.Tuple

```
>>> tuple=('aa','bb')
>>> print(tuple)
('aa', 'bb')
>>> |
```

8.Loops

8.1.

```
while(True):
    uinput=input("enter 'input' to break the loop and y to continue:")
    if(uinput=='input'):
        break
    elif(uinput=='y'):
        continue
    else:
        print("enter valid input only")
enter 'input' to break the loop and y to continue:y
    enter 'input' to break the loop and y to continue:n
    enter valid input only
    enter 'input' to break the loop and y to continue:y
    enter 'input' to break the loop and y to continue:y
    enter 'input' to break the loop and y to continue:y
    enter 'input' to break the loop and y to continue:
```

8.3.

```
>>> Dict={'a':1,'b':2,'c':3,'d':4,'e':5}
>>> for i in Dict:
    print(i)

a
b
c
d
```

8.4.

```
numl=int(input("Enter number 1:"))
num2=int(input("Enter number 2:"))
if(num1>num2):
    print(num1,"is greater")
else:
    print(num2,"is greater")
```

9.File handling

```
def main():
    f=open("File_handling.txt","w+")
    f.write("File handling")
    f.close()

f=open("File_handling.txt","a")
    f.write("\n In python")
    f.close()

if __name__ == "__main__":
    main()
```

```
File handling
In python
```