21SE02ml006

Practical

(a) Write a python script to demonstrate Eval()

```
#eval is alternate to type cast

value=eval(input("enter anything"))
print("you have entered", type(value), "type of value")
```

IDLE Shell 3.10.5

File Edit Shell Debug Options Window Help

```
Python 3.10.5 (tags/v3.10.5:f377153, Jun  6 2022, 16
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" f
>>> eval("1+2*3/2")
4.0
>>>
==== RESTART: C:/Users/student/AppData/Local/Program
enter anything5
you have entered <class 'int'> type of value
>>>
==== RESTART: C:/Users/student/AppData/Local/Program
enter anything2.5
you have entered <class 'float'> type of value
>>>
==== RESTART: C:/Users/student/AppData/Local/Program
enter anything True
you have entered <class 'bool'> type of value
>>>
==== RESTART: C:/Users/student/AppData/Local/Program
enter anything "computer"
you have entered <class 'str'> type of value
>>>
==== RESTART: C:/Users/student/AppData/Local/Program
enter anything(11,22,33)
you have entered <class 'tuple'> type of value
>>>
==== RESTART: C:/Users/student/AppData/Local/Program
enter anything("a","b")
you have entered <class 'tuple'> type of value
>>>
```

```
>>> x=5
>>> y=10
>>> eval("x+y")
15
```

```
>>> eval("1+2*3/2")
4.0
```

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(b) Write a python script to demonstrate Array()

```
from array import *
values=array('i',[11,33,44])
print(values)
```

```
IDLE Shell 3.10.5
File  Edit  Shell  Debug  Options  Window  Help
Python 3.10.5 (tags/v3.10.5:f377153, Jun
AMD64)] on win32
Type "help", "copyright", "credits" or "li
>>>
==== RESTART: C:/Users/student/AppData/Loc
array('i', [11, 33, 44])
>>>
```

```
from array import *
values=array('i',[11,33,44])
for i in values:
    print(i)
```

```
>>>
==== RES1
11
33
44
```

```
from array import *
values=array('i',[11,22,33,44,33])

values.append(45)
print(values)
print("33 comes ", values.count(33),"times")
values.extend([66,77])
print(values)
values.insert(1,112)
print(values)
print(values.index(11))
values.pop(2)
print(values)
values.reverse()
print(values)
```

```
==== RESTART: C:/Users/student/AppData/Local/Program
array('i', [11, 22, 33, 44, 33, 45])
33 comes  2 times
array('i', [11, 22, 33, 44, 33, 45, 66, 77])
array('i', [11, 112, 22, 33, 44, 33, 45, 66, 77])
0
array('i', [11, 112, 33, 44, 33, 45, 66, 77])
array('i', [77, 66, 45, 33, 44, 33, 112, 11])
>>>
```