

PDF_CODE

HIT137 Software Now
Week 4

Sentencesplit.py

```
sentence="this example has five words"
words=sentence.split()
print(words)
index=0
while index<len(words):
    words[index]=words[index].upper()
    index+=1
print(words)
```

```
['this', 'example', 'has', 'five', 'words']
['THIS', 'EXAMPLE', 'HAS', 'FIVE', 'WORDS']
Process returned 0 (0x0)      execution time : 0.046 s
Press any key to continue . . . █
```

-----Refer to PPT

Alist.py

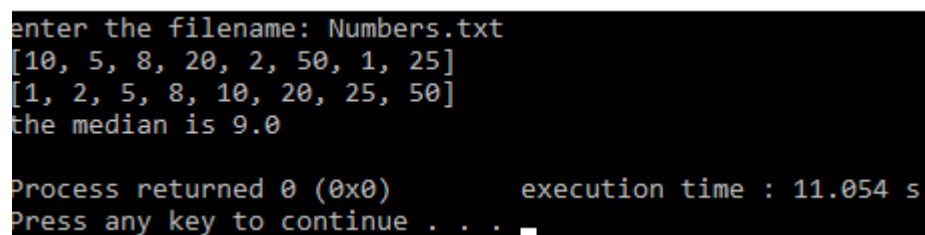
```
alist=[34,45,67]
target=45
if target in alist:
    print(alist.index(target))
else:
    print(-1)
```

```
1
Process returned 0 (0x0)      execution time : 0.040 s
Press any key to continue . . . █
```

-----Refer to PPT

Numbersort.py

```
filename=input("enter the filename: ")
f=open(filename,'r')
numbers = []
for line in f:
    words=line.split()
    for word in words:
        numbers.append(int(word))
print(numbers)
numbers.sort()
print(numbers)
midpoint = len(numbers)//2
print("the median is", end=" ")
if len(numbers)%2 ==1:
    print(numbers[midpoint])
else:
    print((numbers[midpoint]+numbers[midpoint-1])/2)
```

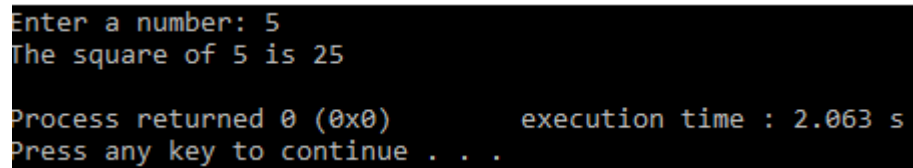


```
enter the filename: Numbers.txt
[10, 5, 8, 20, 2, 50, 1, 25]
[1, 2, 5, 8, 10, 20, 25, 50]
the median is 9.0
Process returned 0 (0x0)      execution time : 11.054 s
Press any key to continue . . .
```

-----Refer to PPT

SquareFunction.py

```
def main():  
    number=int(input("Enter a number: "))  
    result=square(number)  
    print("The square of", number, "is", result)  
def square(x):  
    return x*x  
main()
```

A terminal window with a black background and white text. It shows the program's execution: the user enters '5', the program outputs 'The square of 5 is 25', and then displays system information like 'Process returned 0 (0x0)' and 'execution time : 2.063 s'.

```
Enter a number: 5  
The square of 5 is 25  
Process returned 0 (0x0)      execution time : 2.063 s  
Press any key to continue . . .
```

-----Refer to PPT

BasicDict.py

```
info={}

info["name"] = "Sandy"

info["occupation"] = "hacker"

print(info)

info["occupation"]="manager"

print(info)

print(info["name"])

print(info.get("job",None))

print(info.pop("job",None))

print(info.pop("occupation",None))

print(info)

for key in info:

    print(key,info[key])
```

```
{'name': 'Sandy', 'occupation': 'hacker'}
{'name': 'Sandy', 'occupation': 'manager'}
Sandy
None
None
manager
{'name': 'Sandy'}
name Sandy

Process returned 0 (0x0)      execution time : 0.044 s
Press any key to continue . . .
```