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()
```

```
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])
```