

DATA STRUCTURE
SECOND CLASS
LAB 4
PREPARED BY:

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Lecture Outline: -

1- Static LinkedList

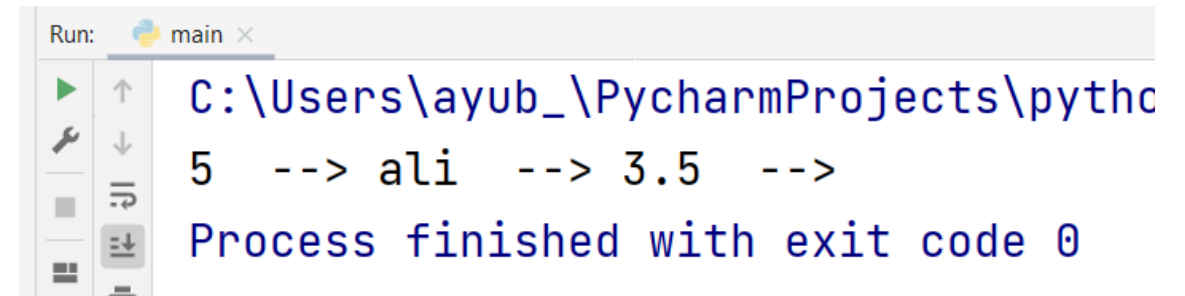


1- Static LinkedList



Write a program to initial static Linked List of 3 Nodes

```
class Node():  
    def __init__(self,data,next=None):  
        self.data=data  
        self.next=next  
nod1=Node(5)  
nod2=Node('ali')  
nod3=Node(3.5)  
nod1.next=nod2  
nod2.next=nod3  
p=nod1  
while p!=None:  
    print(p.data,'--> ',end="")  
    p=p.next
```



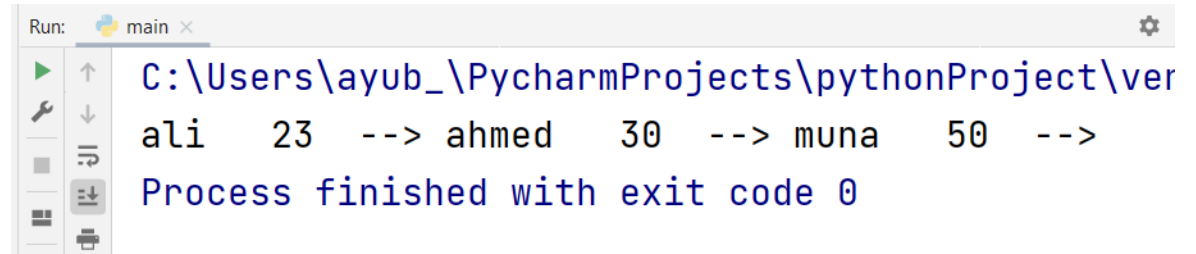
The screenshot shows a terminal window titled 'Run: main x'. It displays the output of a Python program that creates a static linked list with three nodes. The first node contains the value 5, the second contains the string 'ali', and the third contains the float value 3.5. The output shows these values connected by '--> ' characters. The terminal also indicates that the process finished with an exit code of 0.

```
Run: main x  
C:\Users\ayub_\PycharmProjects\pythc  
5 --> ali --> 3.5 -->  
Process finished with exit code 0
```



Write a program to initial static Linked List of 3 Nodes of students and each node contain (name and age)

```
class Node():
    def __init__(self,name,age,next=None):
        self.name=name
        self.age=age
        self.next=next
nod1=Node('ali',23)
nod2=Node('ahmed',30)
nod3=Node('muna',50)
nod1.next=nod2
nod2.next=nod3
p=nod1
while p!=None:
    print(p.name,' ',p.age, ' --> ',end="")
    p=p.next
```



The screenshot shows a PyCharm Run window titled 'Run: main x'. The output text is as follows:

```
C:\Users\ayub_\PycharmProjects\pythonProject\ver
ali  23  --> ahmed  30  --> muna  50  -->
Process finished with exit code 0
```



Thank You

