

DATA STRUCTURE
SECOND CLASS
LAB 7
PREPARED BY:

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Lecture Outline: -

1- Static LinkedList

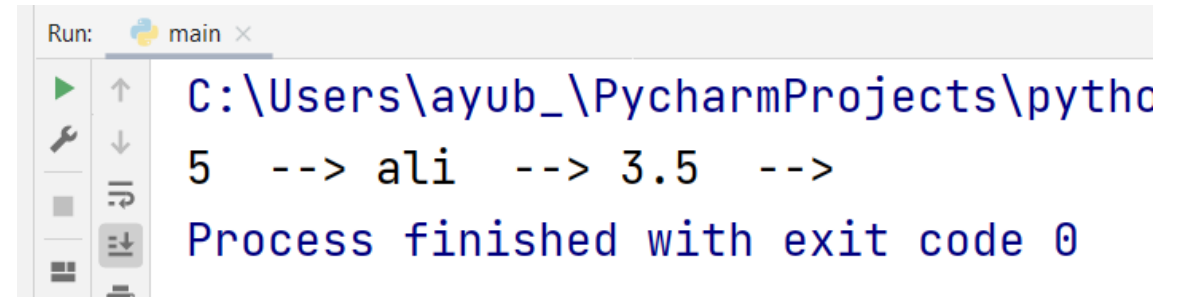


1- Static LinkedList



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
```

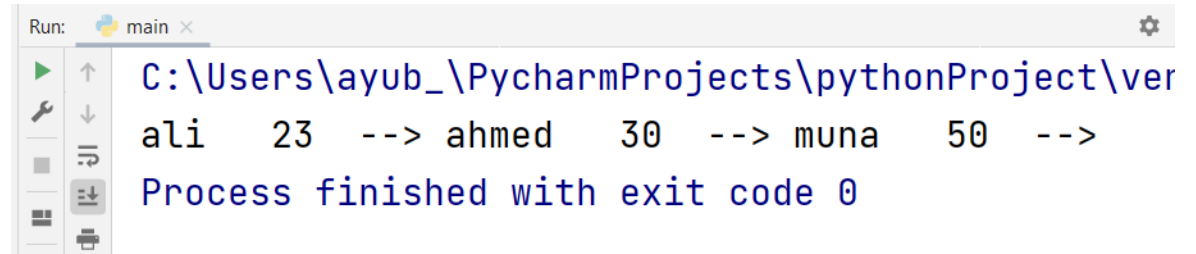


```
Run: main x  
C:\Users\ayub_\PycharmProjects\pythc  
5 --> ali --> 3.5 -->  
Process finished with exit code 0
```



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 'main'. The output text is: 'C:\Users\ayub_\PycharmProjects\pythonProject\ver', 'ali 23 --> ahmed 30 --> muna 50 -->', and 'Process finished with exit code 0'. The window includes standard IDE controls like a play button, a settings gear, and a scroll bar.

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



Thank You

