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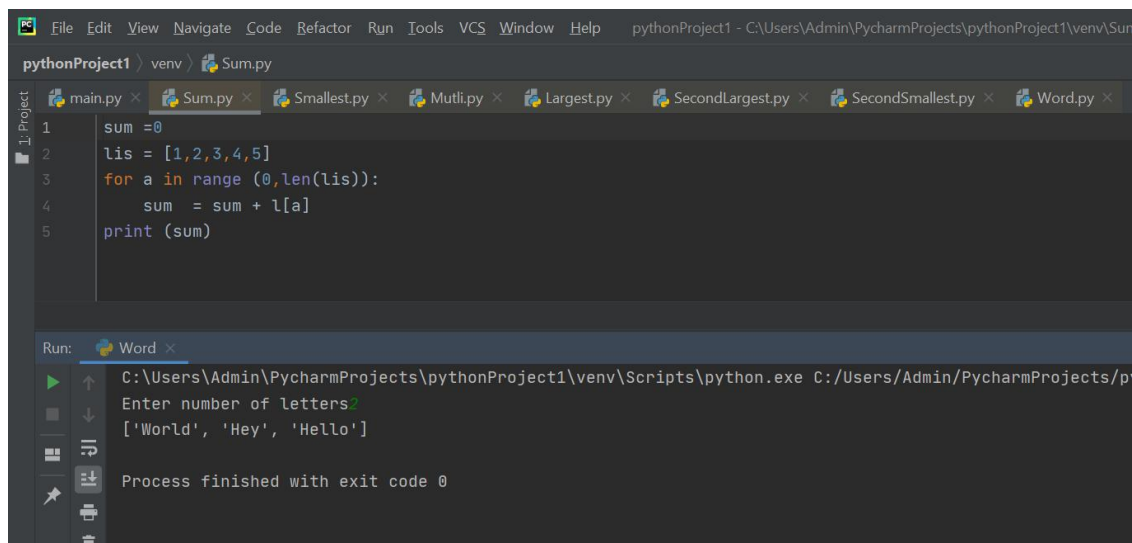
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Subject- Python

Exercise on List

Write a Python program to sum all the items in a list.

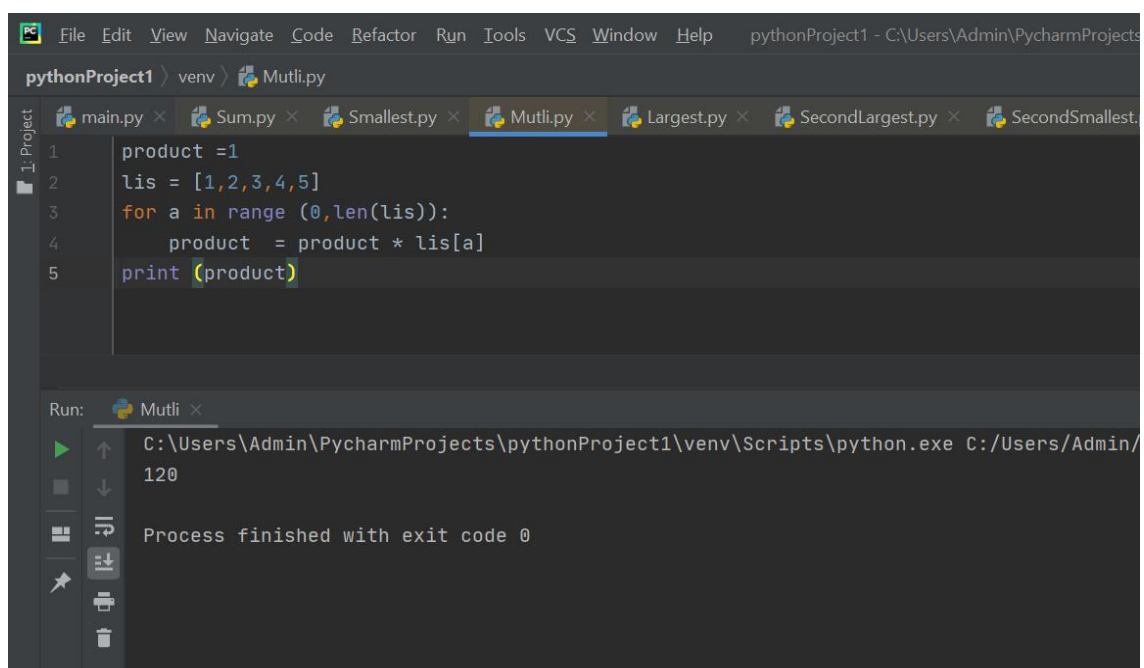


The screenshot shows the PyCharm IDE with a project named 'pythonProject1'. The file explorer on the left shows a folder 'venv' containing several Python files: 'main.py', 'Sum.py', 'Smallest.py', 'Mutli.py', 'Largest.py', 'SecondLargest.py', 'SecondSmallest.py', and 'Word.py'. The 'Sum.py' file is open in the editor, showing the following code:

```
1 sum = 0
2 lis = [1,2,3,4,5]
3 for a in range (0,len(lis)):
4     sum = sum + lis[a]
5 print (sum)
```

The Run window at the bottom shows the execution of the program. The command executed is 'C:\Users\Admin\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/Admin/PycharmProjects/p'. The output is 'Enter number of letters?' followed by '['World', 'Hey', 'Hello']'. The process finished with exit code 0.

Write a Python program to multiplies all the items in a list.

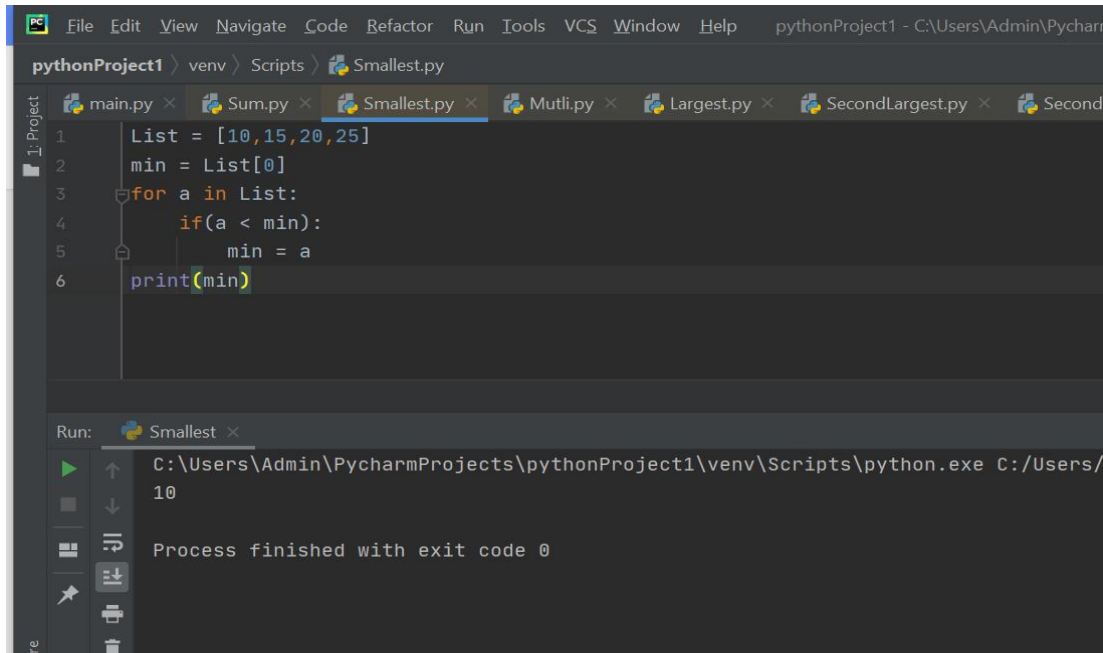


The screenshot shows the PyCharm IDE with the same project 'pythonProject1'. The file explorer on the left shows the same files as the previous screenshot. The 'Mutli.py' file is open in the editor, showing the following code:

```
1 product =1
2 lis = [1,2,3,4,5]
3 for a in range (0,len(lis)):
4     product = product * lis[a]
5 print (product)
```

The Run window at the bottom shows the execution of the program. The command executed is 'C:\Users\Admin\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/Admin/'. The output is '120'. The process finished with exit code 0.

Write a Python program to find the smallest number in a list

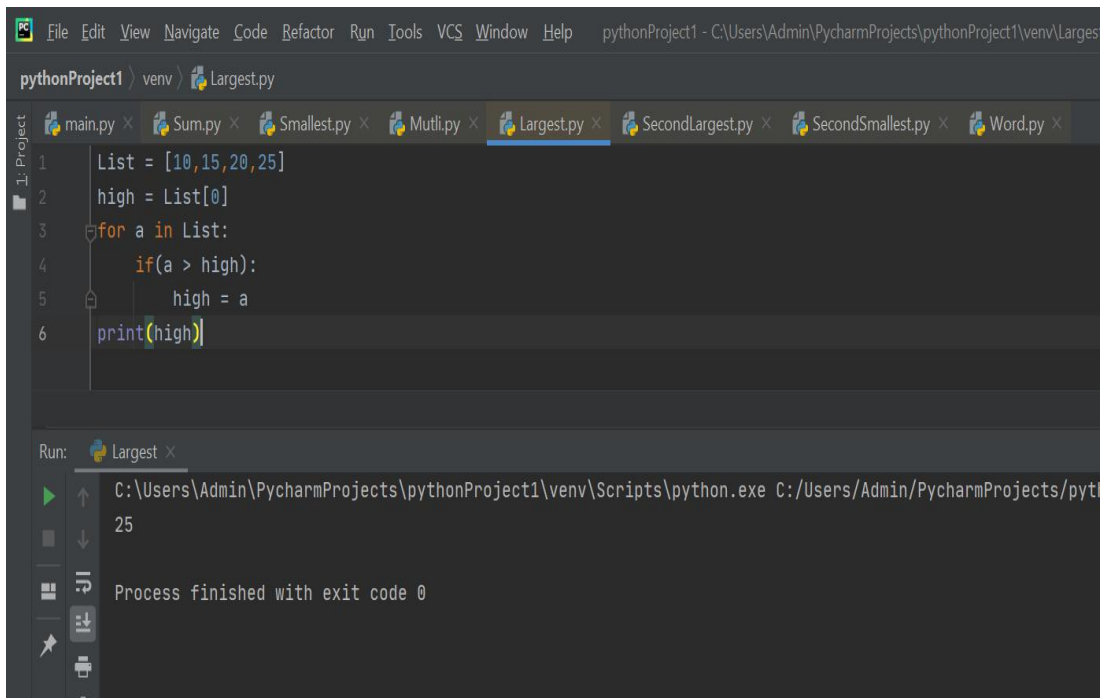


The screenshot shows the PyCharm IDE with a project named 'pythonProject1'. The file explorer on the left shows a folder '1-Project' containing several files: 'main.py', 'Sum.py', 'Smallest.py', 'Mutli.py', 'Largest.py', 'SecondLargest.py', and 'Second'. The 'Smallest.py' file is open in the editor. The code in 'Smallest.py' is as follows:

```
1 List = [10,15,20,25]
2 min = List[0]
3 for a in List:
4     if(a < min):
5         min = a
6 print(min)
```

The Run window at the bottom shows the command executed: `C:\Users\Admin\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/` and the output: `10`. The process finished with exit code 0.

Write a Python program to find the largest number in a list

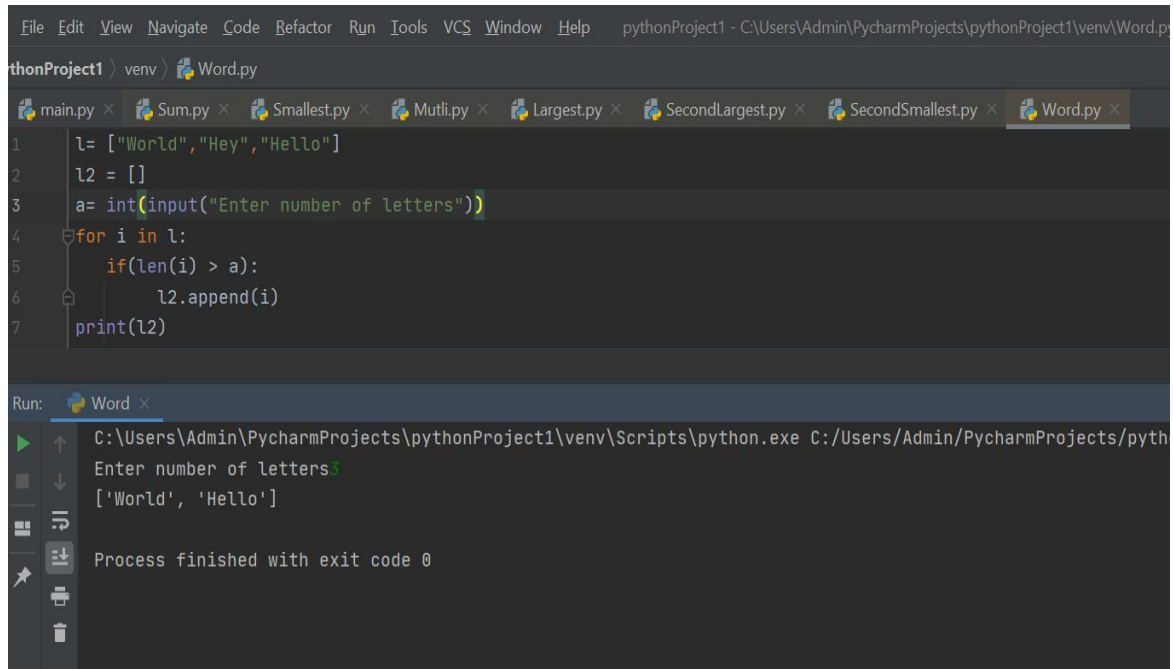


The screenshot shows the PyCharm IDE with a project named 'pythonProject1'. The file explorer on the left shows a folder '1-Project' containing several files: 'main.py', 'Sum.py', 'Smallest.py', 'Mutli.py', 'Largest.py', 'SecondLargest.py', 'SecondSmallest.py', and 'Word.py'. The 'Largest.py' file is open in the editor. The code in 'Largest.py' is as follows:

```
1 List = [10,15,20,25]
2 high = List[0]
3 for a in List:
4     if(a > high):
5         high = a
6 print(high)
```

The Run window at the bottom shows the command executed: `C:\Users\Admin\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/Admin/PycharmProjects/pyt` and the output: `25`. The process finished with exit code 0.

Write a Python program to find the list of words that are longer than n from a given list of words.



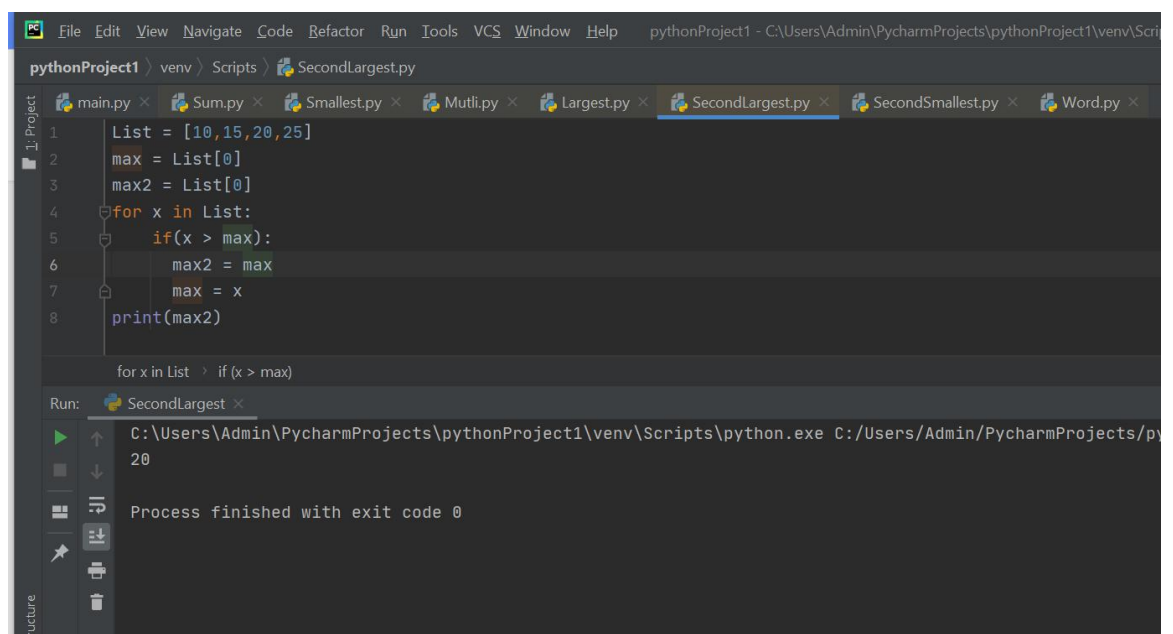
The screenshot shows a PyCharm IDE window with a project named 'pythonProject1'. The file explorer on the left shows a directory structure with a 'venv' folder. The main editor displays a file named 'Word.py' with the following code:

```
1 l= ["World","Hey","Hello"]
2 l2 = []
3 a= int(input("Enter number of letters"))
4 for i in l:
5     if(len(i) > a):
6         l2.append(i)
7 print(l2)
```

The Run window at the bottom shows the execution of the program. The command prompt displays the following output:

```
C:\Users\Admin\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/Admin/PycharmProjects/pyth
Enter number of letters3
['World', 'Hello']
Process finished with exit code 0
```

Write a Python program to find the second largest number in a list.



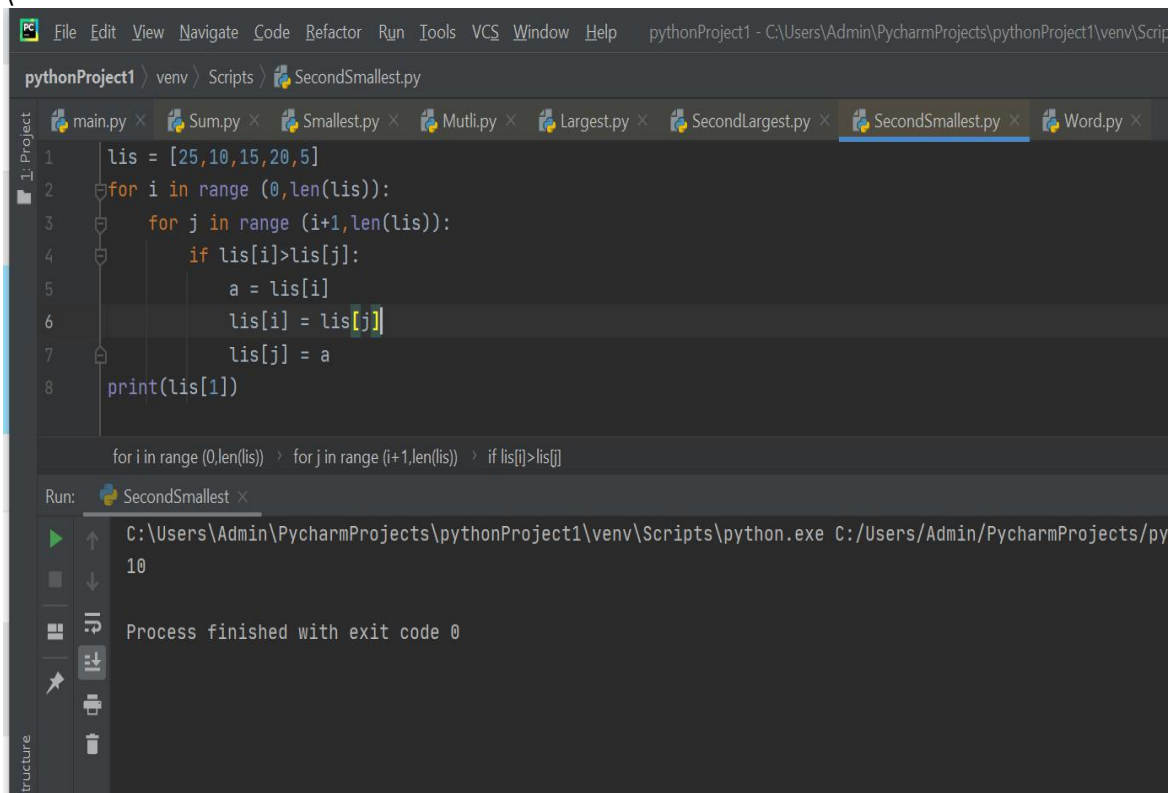
The screenshot shows a PyCharm IDE window with a project named 'pythonProject1'. The file explorer on the left shows a directory structure with a 'Scripts' folder. The main editor displays a file named 'SecondLargest.py' with the following code:

```
1 List = [10,15,20,25]
2 max = List[0]
3 max2 = List[0]
4 for x in List:
5     if(x > max):
6         max2 = max
7         max = x
8 print(max2)
```

The Run window at the bottom shows the execution of the program. The command prompt displays the following output:

```
C:\Users\Admin\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/Admin/PycharmProjects/py
20
Process finished with exit code 0
```

Write a Python program to find the second smallest number in a list



```
pythonProject1 > venv > Scripts > SecondSmallest.py
1  lis = [25,10,15,20,5]
2  for i in range(0,len(lis)):
3      for j in range(i+1,len(lis)):
4          if lis[i]>lis[j]:
5              a = lis[i]
6              lis[i] = lis[j]
7              lis[j] = a
8  print(lis[1])
```

Run: SecondSmallest ×

C:\Users\Admin\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/Admin/PycharmProjects/py
10

Process finished with exit code 0