

Artificial Intelligence



Lab 04

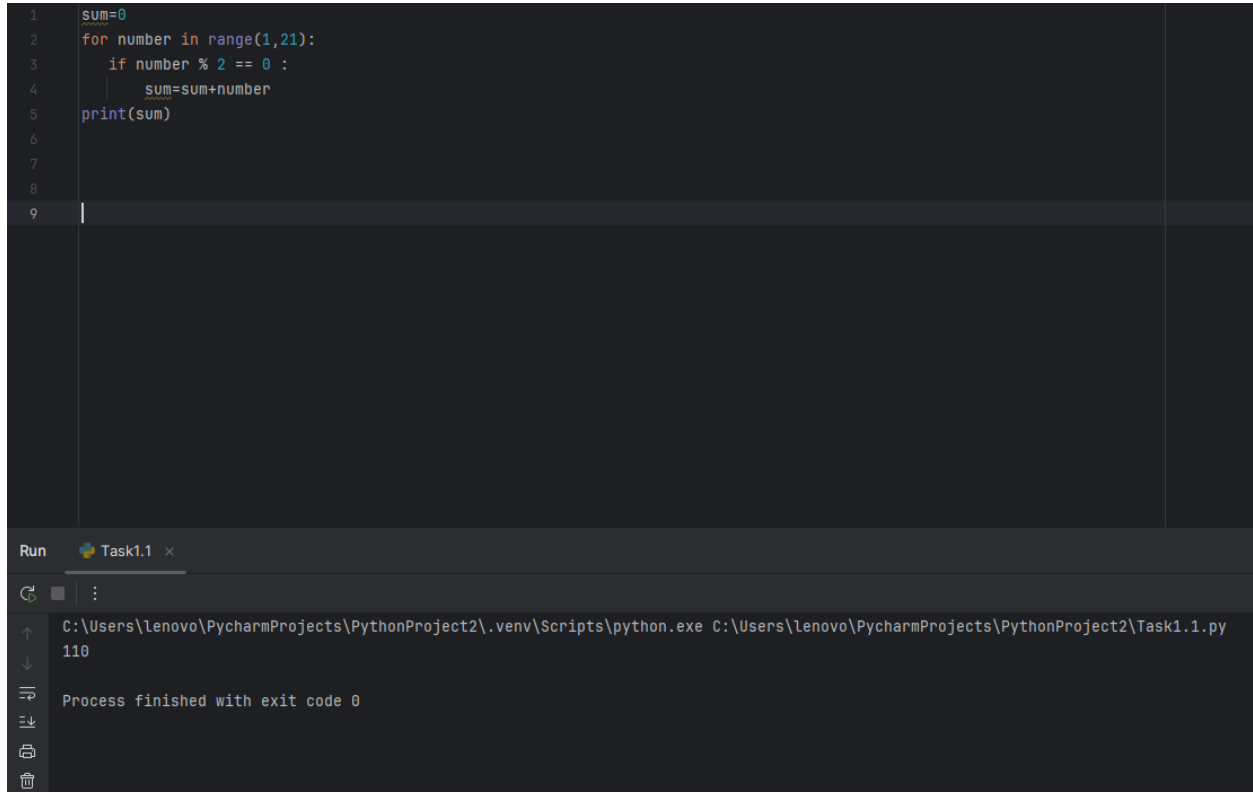
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Batch: BSCS-6th semester

Task 01



The screenshot shows a code editor with a Python script and a terminal window below it. The script calculates the sum of even numbers from 1 to 21. The terminal shows the command to run the script and the output, which is 110.

```
1 sum=0
2 for number in range(1,21):
3     if number % 2 == 0 :
4         sum=sum+number
5 print(sum)
6
7
8
9
```

Run Task1.1 x

C:\Users\lenovo\PycharmProjects\PythonProject2\.venv\Scripts\python.exe C:\Users\lenovo\PycharmProjects\PythonProject2\Task1.1.py
110

Process finished with exit code 0

Task 02

```
1  list=[9,2,3,4,5,6]
2  minimum=min(9,2,3,4,5,6)
3  print(minimum)]
```

Run 1.2 x

C:\Users\lenovo\PycharmProjects\PythonProject2\.venv\Scripts\python.exe C:\Users\lenovo\F
2

Process finished with exit code 0

Task 03

```
list=[1,2,"Ayesha", "Minha", 20.5]
print(list)
list2=[3,5]
list.extend(list2)
print(list)
```

1.3 x

⏏ | :

C:\Users\lenovo\PycharmProjects\PythonProject2\.venv\Scripts\python.exe C:\Users\lenovo\PycharmProjects\PythonProject2\1.3.py

[1, 2, 'Ayesha', 'Minha', 20.5]

[1, 2, 'Ayesha', 'Minha', 20.5, 3, 5]

Process finished with exit code 0

Task 04

```
task 01.py task 02.py task03.py task 04.py task 05.py task6.py Task1.1.py
1 factorial=1
2 num=int(input("Enter a number:"))
3 if num > 0 :
4     print(num)
5 else:
6     print("wrong input")
7 i=num
8 while i > 1:
9     factorial *= i
10    i= i-1
11 print(factorial)

Run task1.4 x
C:\Users\lenovo\PycharmProjects\PythonProject2\.venv\Scripts\python.exe C:\Users\lenovo\PycharmPr
Enter a number:5
5
120
Process finished with exit code 0
|
```

Task 05

```
1 letters= input("enter a letter:")
2 print(letters)
3
4 list =['A ','E' ,'I' , 'O' , 'U' , 'a' , 'e' ,'i','o','u']
5 if letters in list :
6     print("letters is vowel")
7 else:
8     print("constant")
9 |
```

Run 1.5 x



```
C:\Users\lenovo\PycharmProjects\PythonProject2\.venv\Scripts\python.exe C:\Users\lenovo\PycharmProjects\PythonProject2\1.5.py
enter a letter:a
a
letters is vowel
Process finished with exit code 0
```