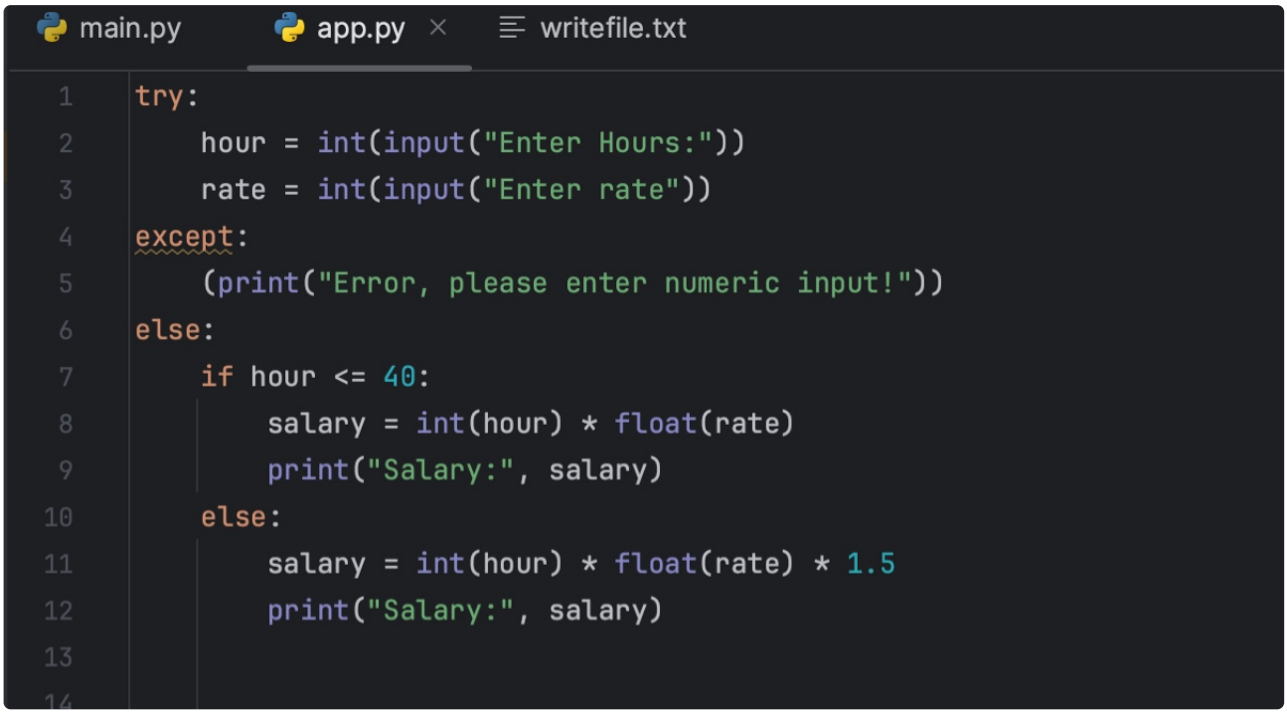
COMPUTATIONAL THINKING AND PROGRAMMING

Assigment 3 from 3rd week

Number 1

Write a program that calculates salary 1.5 times wages per hour for workers who work more than 40 hours

Input



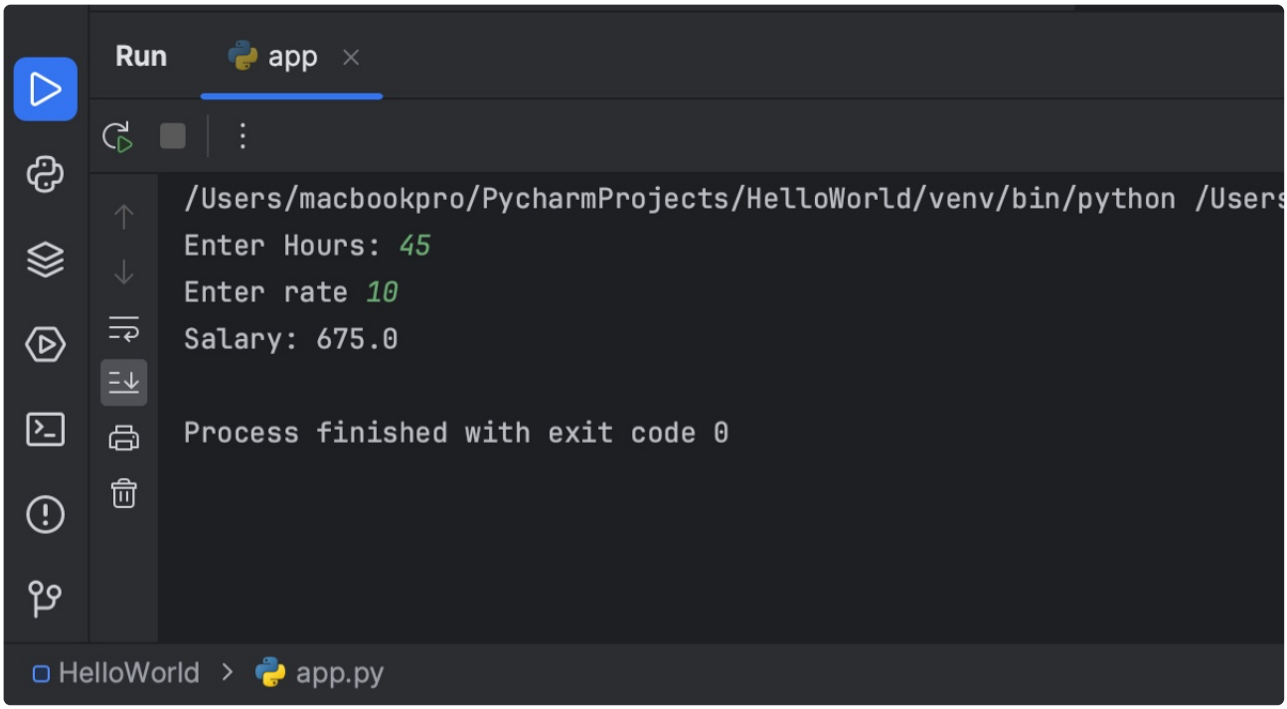
try:
hour = int(input("Enter Hours:"))
rate = int(input("Enter rate"))

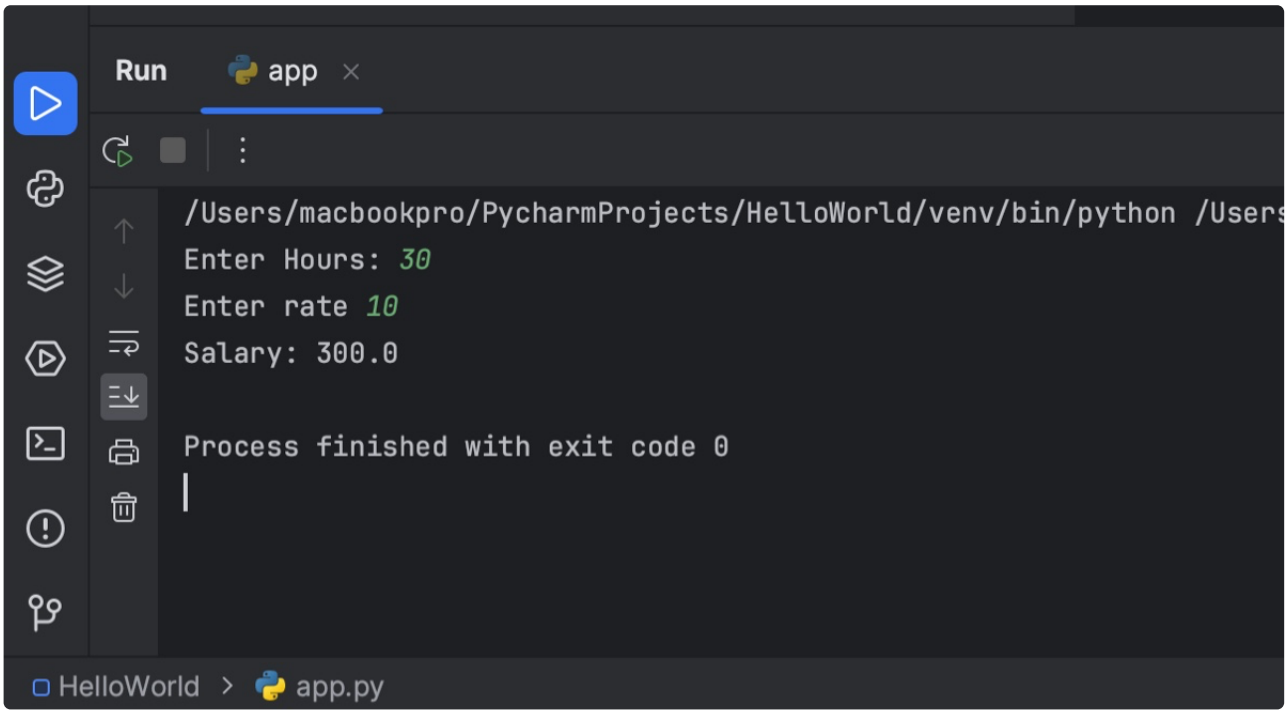
except:
(print("Error, please enter numeric input!"))

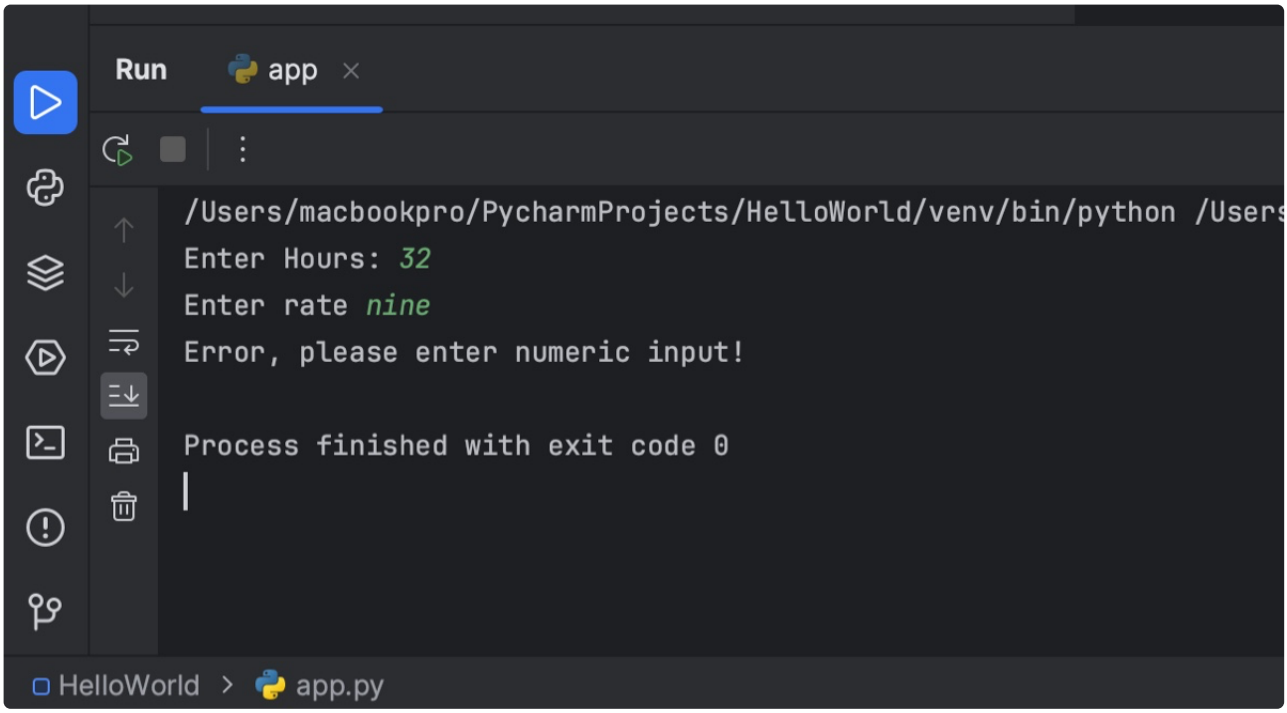
else:
if hour <= 40:
salary = int(hour) * float(rate)
print("Salary:", salary)
else:
salary = int(hour) * float(rate) * 1.5

print("Salary:", salary)

Output







Number 2

Write a program that inputs a score between 0 and 100 and calculates the grade. If the entered value is out of range, an error message is displayed, and if it is within the range, the grade is calculated

Input

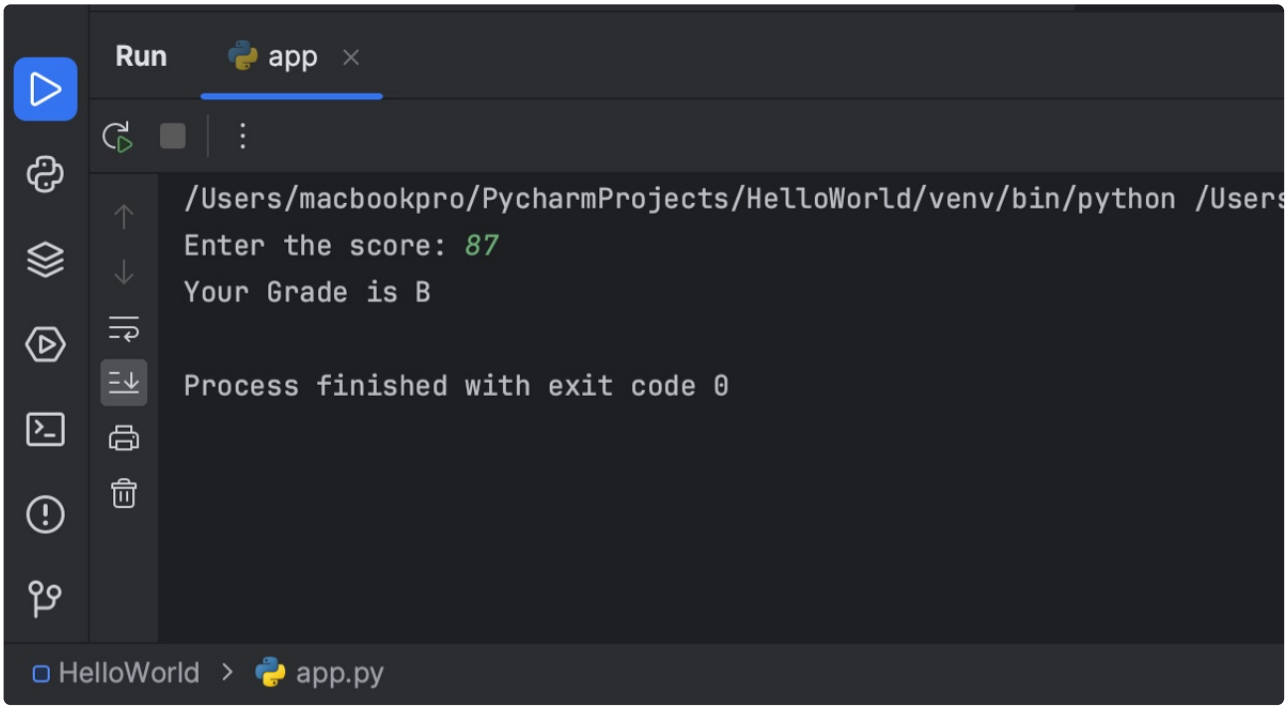
main.py app.py writefile.txt

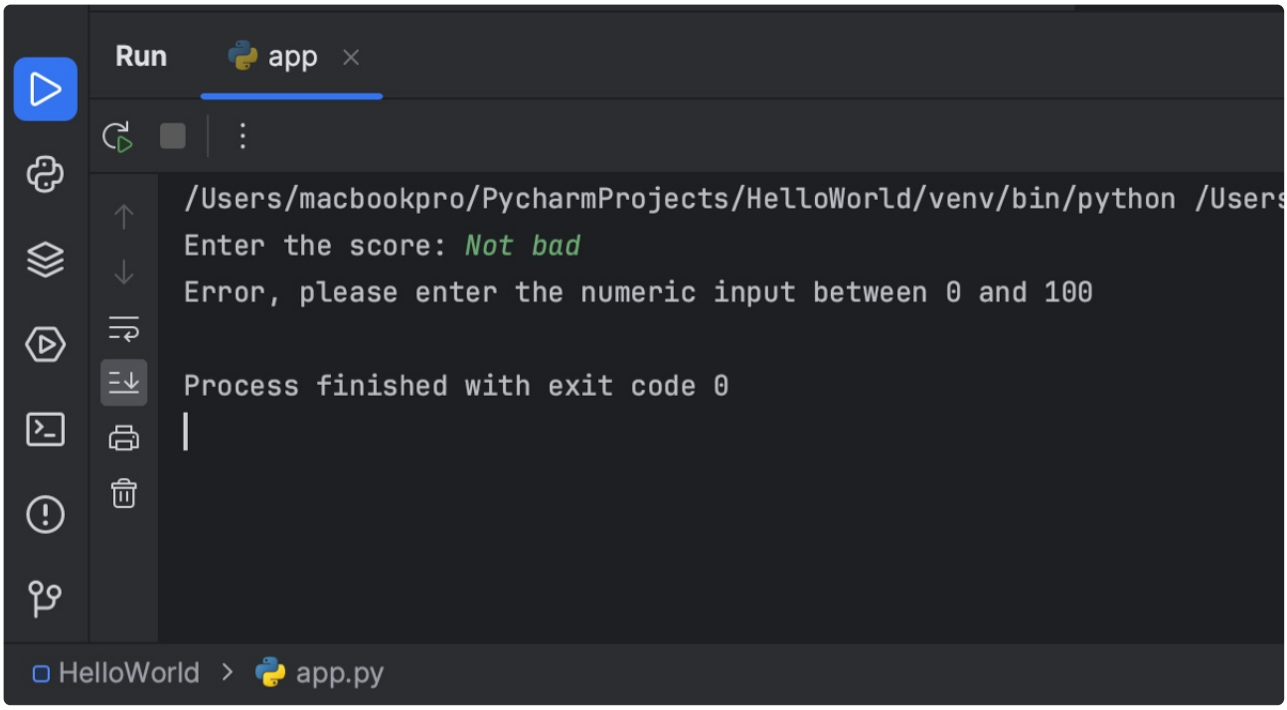
```
try:
  score = int(input("Enter the score:"))
except:
    print("Error, please enter the numeric input between 0 and 100")
else:
    if score >= 90:
        print("Your Grade is A")
    elif score >= 80:
        print("Your Grade is B")
    elif score >= 70:
        print("Your Grade is C")
    elif score >= 60:
        print("Your Grade is D")
    else:
        print("Your Grade is F")
```

try:

```
score = int(input("Enter the score:"))

except:
print("Error, please enter the numeric input between 0 and 100")

else:
if score >= 90:
print("Your Grade is A")
elif score >= 80:
print("Your Grade is B")
elif score >= 70:
print("Your Grade is C")
elif score >= 60:
print("Your Grade is D")
else:
print("Your Grade is F")
```

Output:





Number 3

Write a program that repeatedly inputs a number until the user enters "done". If "done" is entered, the sum, count, and average value of the numbers entered so far are printed. If a value other than a number is entered, an exception must be handled with try and except to output an error message, and then the next number must be input.

Input

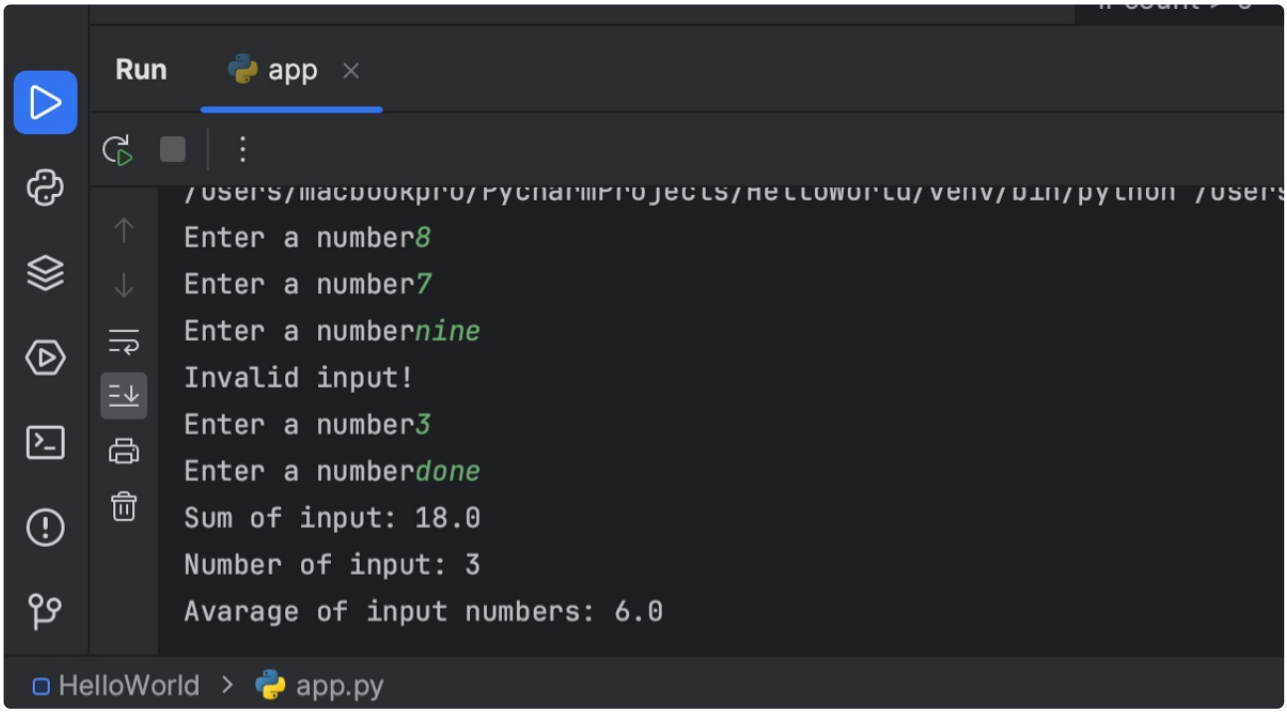
main.py app.py writefile.txt

```
total = 0
count = 0
while True:
    user_input = input("Enter a number")
    if user_input.lower() == "done":
        break

    try:
        number = float(user_input)
        total += number
        count += 1
    except ValueError:
        print("Invalid input!")

if count > 0:
    avarage = total / count
    print(f"Sum of input: {total}")
    print(f"Number of input: {count}")
    print(f"Avarage of input numbers: {avarage}")
```

total = 0

```
count = 0

while True:
user_input = input("Enter a number")
if user_input.lower() == "done":
break

try:
number = float(user_input)
total += number
count += 1

except ValueError:
print("Invalid input!")

if count > 0:
avarage = total / count
print(f"Sum of input: {total}")
print(f"Number of input: {count}")
print(f"Avarage of input numbers: {avarage}")
```

Output



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