<u>YANA SRIVASTAVA</u>

<u>20BCS2279</u>

<u>23"B"</u>

<u>Foundations of AI Applications Lab</u>

HOME TASK

EXPERIMENT – 2

Task-1:

Foundations of AI Applications Lab

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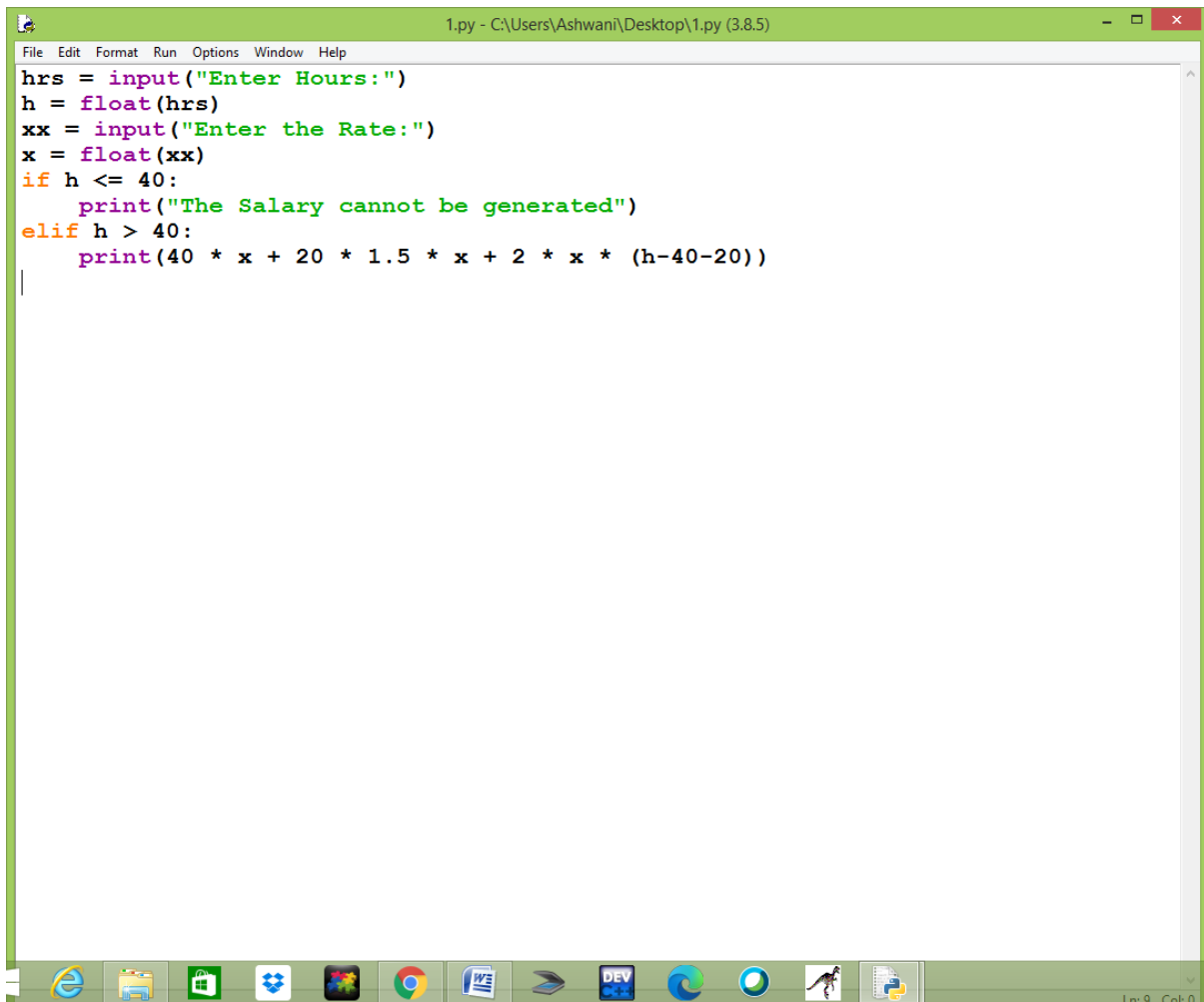CU
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▸ **Create a program wages.py that assumes people are paid double time for hours over 60. They get paid for at most 20 hours overtime at 1.5 times the normal rate.**

▸ **For example, a person working 65 hours with a regular wage of $10 per hour would work at $10 per hour for 40 hours, at 1.5 * $10 for 20 hours of overtime, and 2 * $10 for 5 hours of double time, for a total of**

▸ **10*40 + 1.5*10*20 + 2*10*5 = $800.**

▸ **The number of hours should be generated randomly between 35 and 75.**

▸ **If the number of working hours is less than 40, display message "The salary cannot be generated" with sound of system bell as a warning.**

Requirements:

Computer with Python Program installed in it.

Code:

```
hrs = input("Enter Hours:")

h = float(hrs)

xx = input("Enter the Rate:")

x = float(xx)

if h <= 40:

    print("The Salary cannot be generated")

elif h > 40:

    print(40 * x + 20 * 1.5 * x + 2 * x * (h-40-20))
```
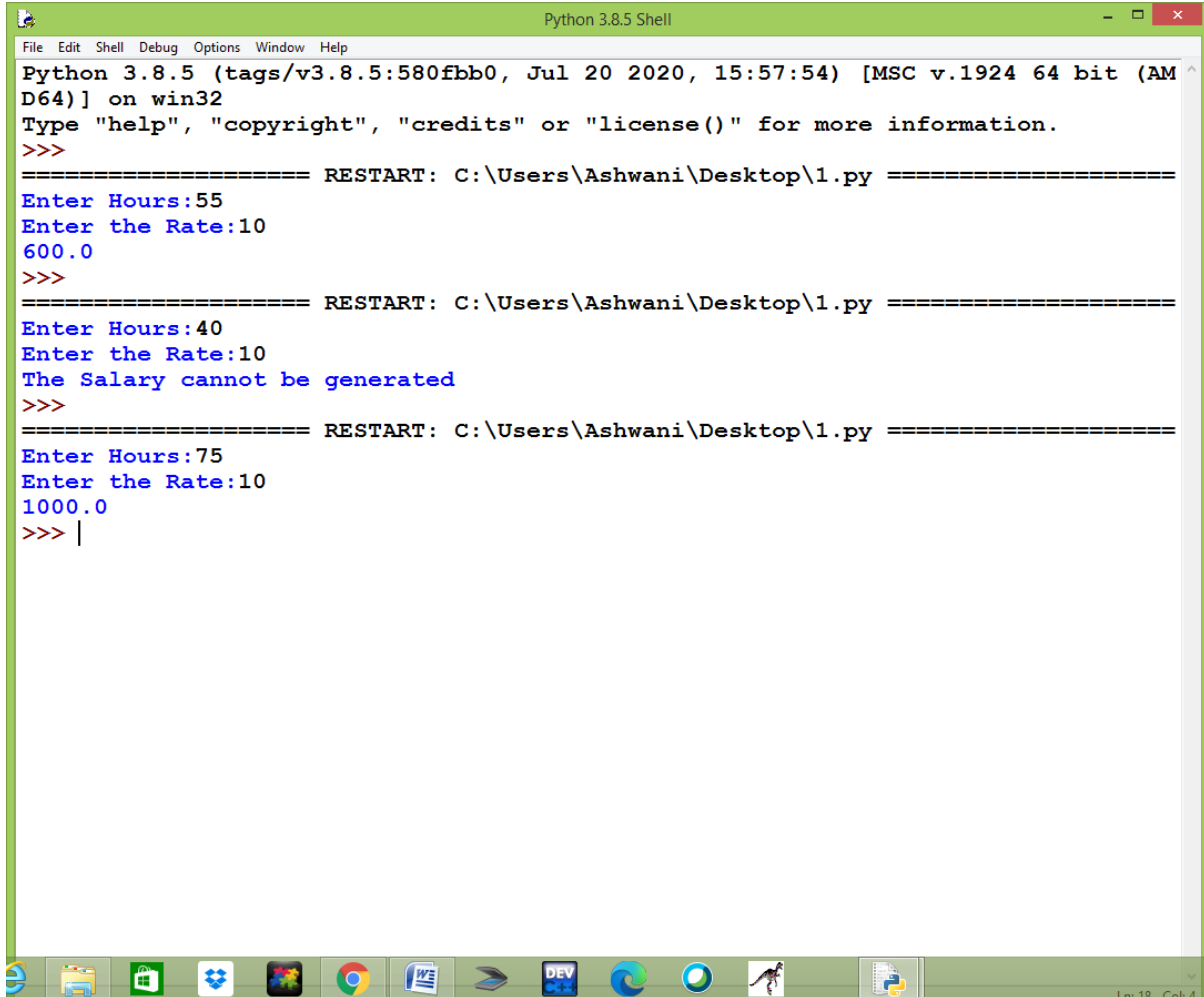
```
1.py - C:\Users\Ashwani\Desktop\1.py (3.8.5)
File  Edit  Format  Run  Options  Window  Help
hrs = input("Enter Hours:")
h = float(hrs)
xx = input("Enter the Rate:")
x = float(xx)
if h <= 40:
    print("The Salary cannot be generated")
elif h > 40:
    print(40 * x + 20 * 1.5 * x + 2 * x * (h-40-20))
```

Outcome:

```
                                    Python 3.8.5 Shell                          –  □   ×
File  Edit  Shell  Debug  Options  Window  Help
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==================== RESTART: C:\Users\Ashwani\Desktop\1.py ====================
Enter Hours:55
Enter the Rate:10
600.0
>>>
==================== RESTART: C:\Users\Ashwani\Desktop\1.py ====================
Enter Hours:40
Enter the Rate:10
The Salary cannot be generated
>>>
==================== RESTART: C:\Users\Ashwani\Desktop\1.py ====================
Enter Hours:75
Enter the Rate:10
1000.0
>>> |
                                                                          Ln: 18  Col: 4
```

Task-2:

WAP to take word input from user and display the input in jumbled form eg.
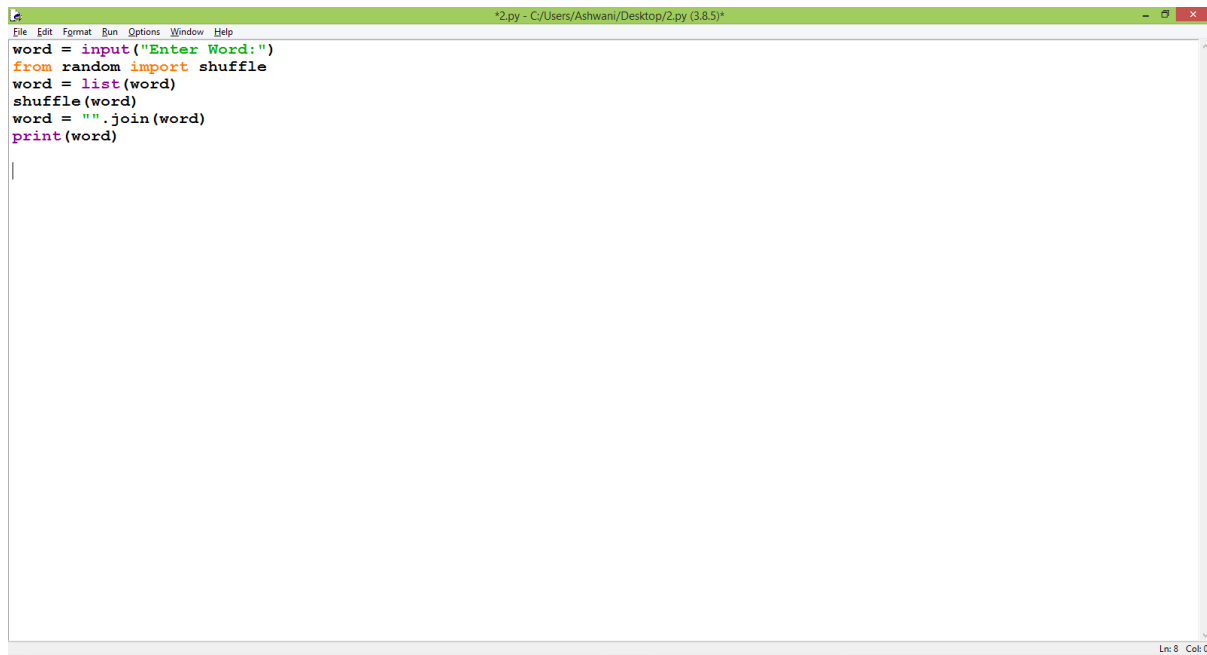
Input – game

Output – agme

Requirements:

Computer with Python Program installed in it.

Code:

word = input("Enter Word:")

from random import shuffle

word = list(word)
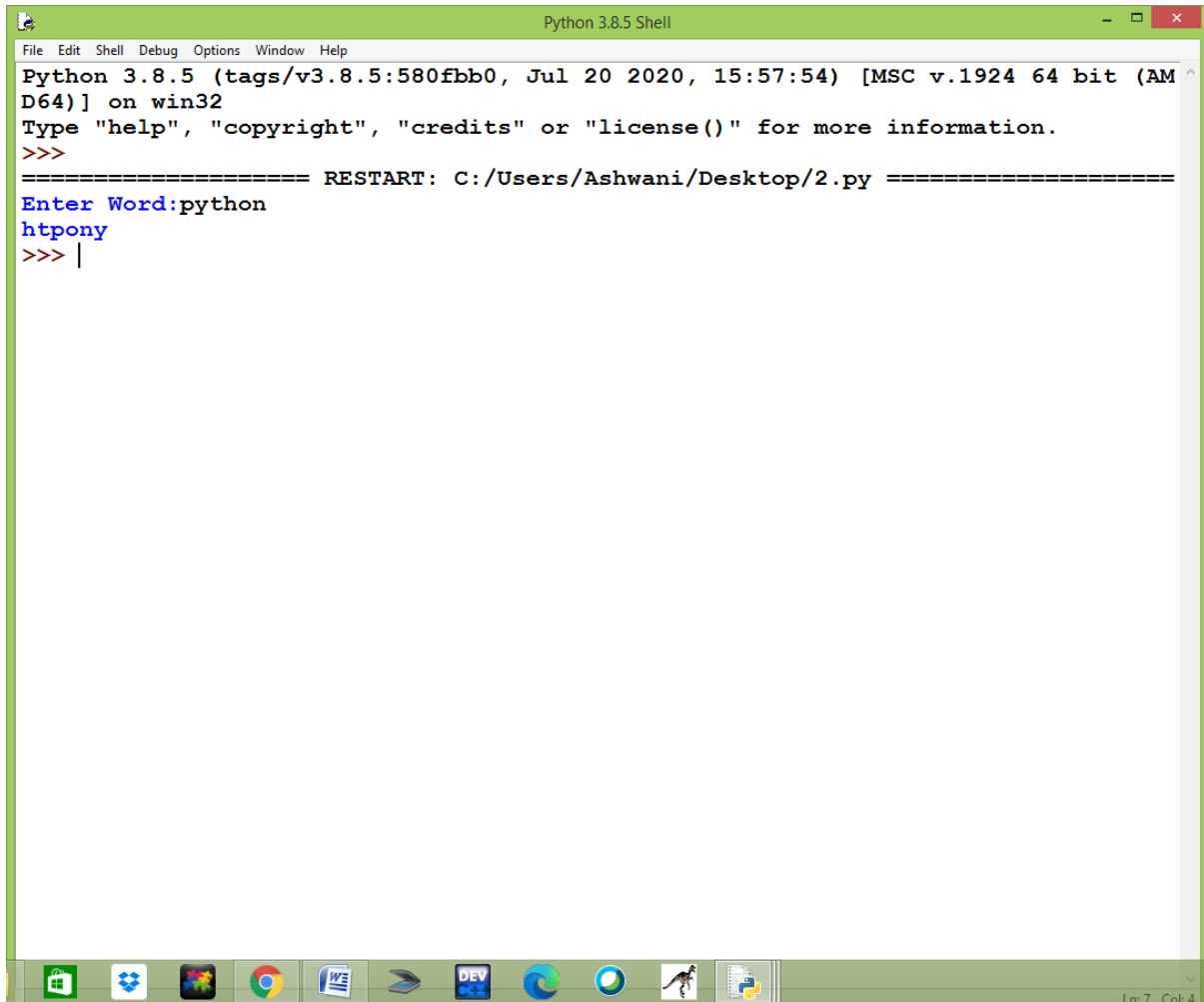
shuffle(word)

word = "".join(word)

print(word)

Outcome: