

Sheet 1

1. Write a program to prompt the user for hours and rate per hour to compute gross pay. Consider that the factory gives the employee 1.5 times the hourly rate for hours worked above 40 hours.

Expected Input/Output script:

Enter the total worked hours:

57

Enter the rate per hour:

2

The gross pay is 131

2. Write a Python program to construct the following pattern, using a nested for loop.

*

* *

* * *

* * * *

* * * * *

* * * *

* * *

* *

*

3. Write a program which prints all the divisors of a number.

Expected Input/Output script:

Enter number: 21

The divisors are 3, 7

4. Write a program which prompts user for a number and prints the reverse of it.

Expected Input/Output script:

Enter number: 834

The reversed number is: 438

5. Write a Python program to count the number of characters (character frequency) in a string.

Sample String : google.com'

Expected Result : {'g': 2, 'o': 3, 'l': 1, 'e': 1, '.': 1, 'c': 1, 'm': 1}

6. Write a Python program to get a single string from two given strings, separated by a space and swap the first two characters of each string.

Sample String : 'abc', 'xyz'

Expected Result : 'xyc abz'