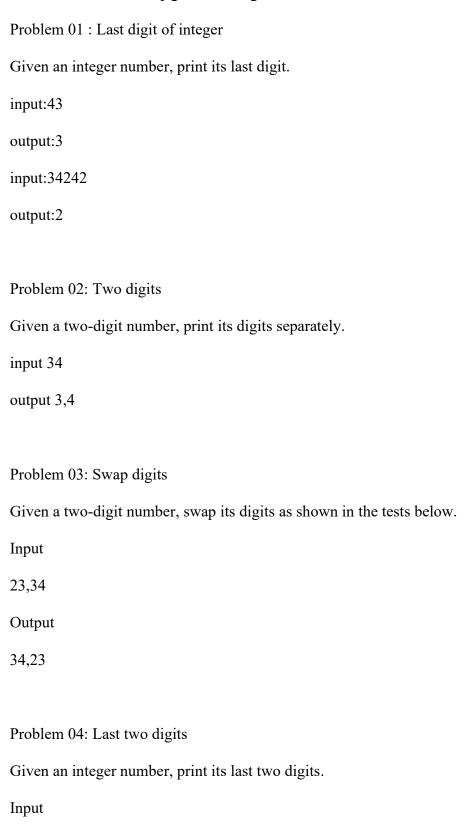
Lab 03 – Data types & Operators



1232

Output

32

Problem 05: Fractional part

Given an integer, print its fractional part.

Input

67.89

Output

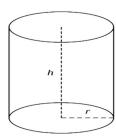
89

Problem 06: Ice-Cream

If Ram buys two ice creams, each costing Rs 50 and Shyam buys three ice creams, each costing Rs 40, write a Python program to determine the total price of ice creams bought by Ram and Shyam.

Problem 07: Shapes

Calculate and display the volume and area of a cylinder. (If the Height and Radius is 10 and 5 respectively)



$$V = \pi r^2 h$$

$$A = 2\pi r h + 2\pi r^2$$

Calculate the area of a trapezoid. (You can assume that a = 5, b = 8 and h = 6)

$$A = \frac{a+b}{2}h$$

Exercise

- 1. First, predict the output of the following python programs. Then execute each in the shell and check whether your predictions were correct or not.
 - 1. 3/2
 - 2. 3//2
 - 3. 2<3
 - 4. 2<3<4
 - 5. 4<5<2
 - x=y=z Assume x=2, y=3 and z=4.
 - 7. x=y+=z
 - 8. +x (Assume x=-3)
 - 9. -x (Assume x=-3)
 - 10. not x (Assume x= 1
 - 11. 1%4+2%4+3%4+4%4
 - 12. X and Y
 - a. Assume X=2 and Y=2
 - b. Assume X=2 and Y=0
 - c. Assume X= True and Y=True
 - d. Assume X= False and Y=True
 - e. Assume X= False and Y=False
 - 13. 2**4*3
 - 14. 2+(3-2)
 - 15. 12/3/2
 - 16. "python" > "java"
 - 17. '5'+'10'
- 2. Try out the following python code to print all keywords in the python version installed in your computer

```
File Edit Format Run Options Window Help

# Python program to print the list of all keywords
# importing the module
import keyword
print("Python keywords are...")
print(keyword.kwlist)
```

3. Try out the following python code to print all keywords in the python version installed in your computer

```
File Edit Format Run Options Window Help

# Python program to print the built

# in functions

import builtins

print(dir(builtins))
```

- 4. Write python instructions to calculate n power p
- 5. Read a number and numeric character. Display the sum.