

EXPERIMENT NO: 1

NAME: Harshal Pramod Kulkarni

Class: SY CSE

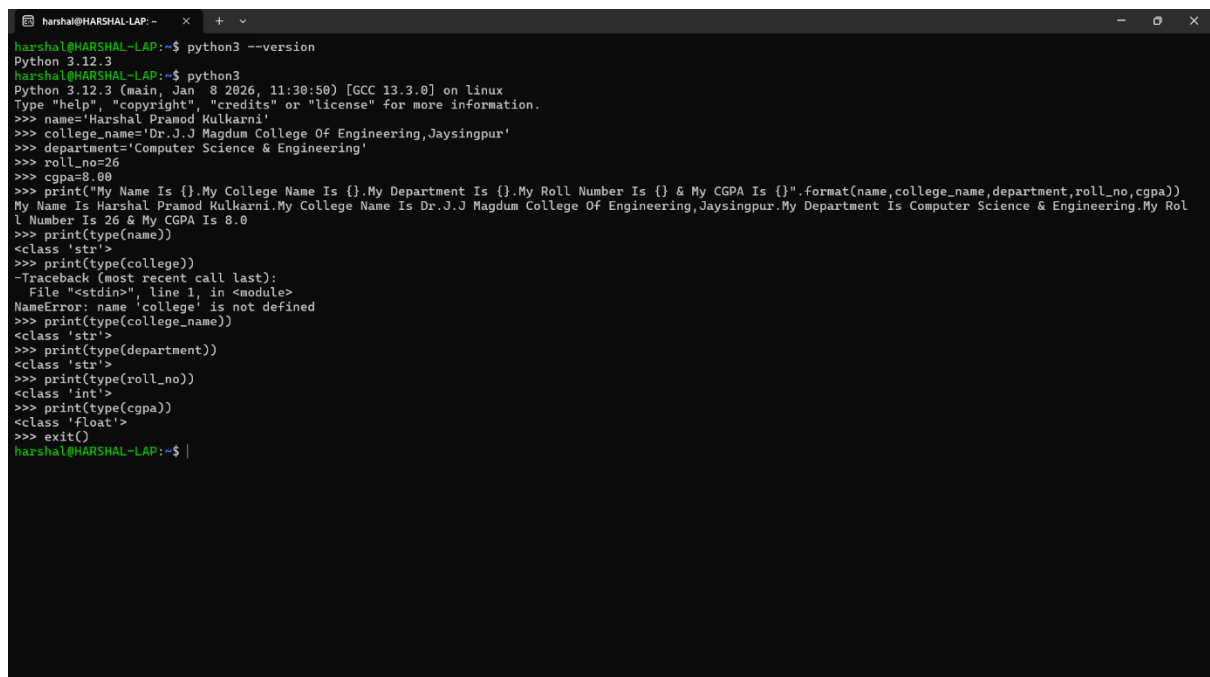
Roll NO: 26

Q.1) Execute Python statements to create a variable with your personal details

like name, department, roll no, percentage, etc. Display their data type.

Display the information in a single line with the print function.

Answer:



```
harshal@HARSHAL-LAP: ~$ python3 --version
Python 3.12.3
harshal@HARSHAL-LAP: ~$ python3
Python 3.12.3 (main, Jan 8 2026, 11:30:50) [GCC 13.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> name='Harshal Pramod Kulkarni'
>>> college_name='Dr.J.J Magdum College Of Engineering,Jaysingpur'
>>> department='Computer Science & Engineering'
>>> roll_no=26
>>> cgpa=8.00
>>> print("My Name Is {}.My College Name Is {}.My Department Is {}.My Roll Number Is {} & My CGPA Is {}".format(name,college_name,department,roll_no,cgpa))
My Name Is Harshal Pramod Kulkarni.My College Name Is Dr.J.J Magdum College Of Engineering,Jaysingpur.My Department Is Computer Science & Engineering.My Roll Number Is 26 & My CGPA Is 8.0
>>> print(type(name))
<class 'str'>
>>> print(type(college))
-Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'college' is not defined
>>> print(type(college_name))
<class 'str'>
>>> print(type(department))
<class 'str'>
>>> print(type(roll_no))
<class 'int'>
>>> print(type(cgpa))
<class 'float'>
>>> exit()
harshal@HARSHAL-LAP: ~$
```

Q.2) Execute Python statements to add, subtract, multiply, and divide two numbers.

Answer:

```
harshal@HARSHAL-LAP: ~$ python3
Python 3.12.3 (main, Jan 8 2026, 11:30:50) [GCC 13.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> a=int(input("Enter Frist Number: "))
Enter Frist Number: 55
>>> b=int(input("Enter Second Number: "))
Enter Second Number: 41
>>> print(a+b)
96
>>> print(a-b)
14
>>> print(a*b)
2255
>>> print(a/b)
1.3414634146341464
>>> exit()
harshal@HARSHAL-LAP: ~$
```

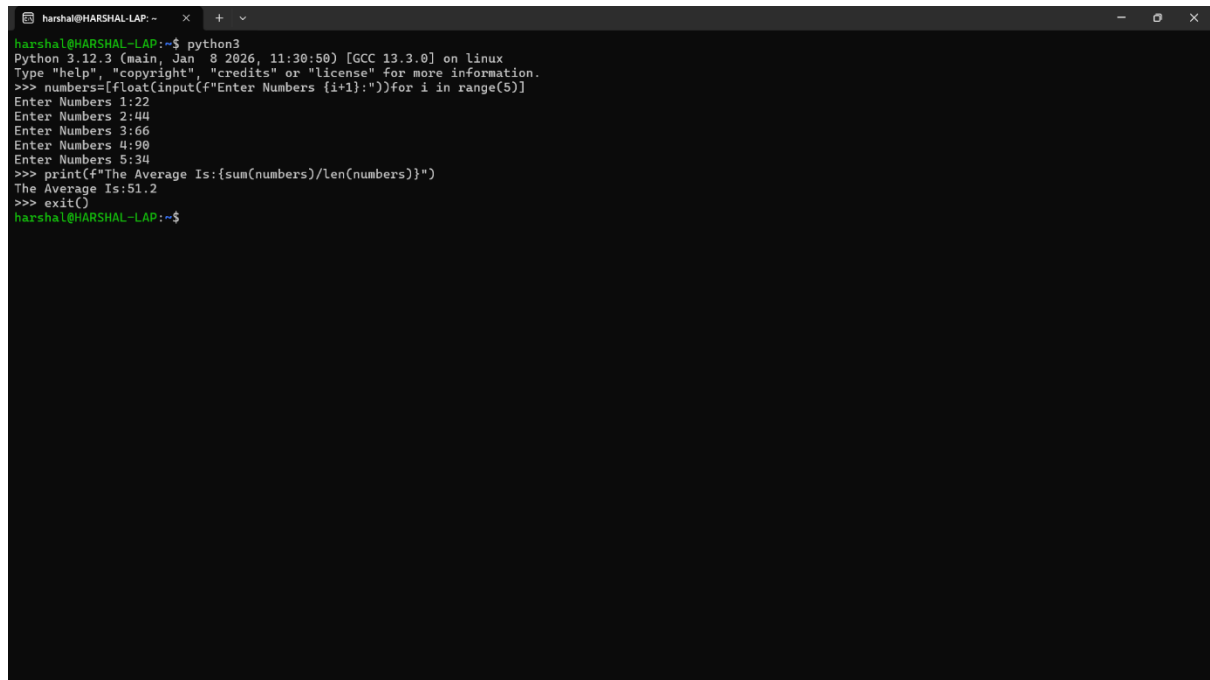
Q.3) Execute Python statements to swap two numbers.

Answer:

```
harshal@HARSHAL-LAP: ~$ python3
Python 3.12.3 (main, Jan 8 2026, 11:30:50) [GCC 13.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> a=int(input("Enter Frist Number: "))
Enter Frist Number: 23
>>> b=int(input("Enter Second Number: "))
Enter Second Number: 44
>>> temporeary=a
>>> a=b
>>> b=temporeary
>>> print(a)
44
>>> print(b)
23
>>> exit()
harshal@HARSHAL-LAP: ~$ python3
Python 3.12.3 (main, Jan 8 2026, 11:30:50) [GCC 13.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> a=int(input("Enter Frist Number: "))
Enter Frist Number: 22
>>> b=int(input("Enter Second Number: "))
Enter Second Number: 54
>>> a,b=b,a
>>> print(a)
54
>>> print(b)
22
>>> exit()
harshal@HARSHAL-LAP: ~$ |
```

Q.4) Execute Python statements to find the average of 5 numbers taken from user.

Answer:

A terminal window titled 'harshal@HARSHAL-LAP: ~' with standard window controls. It shows a Python 3.12.3 shell session. The user enters 'python3' at the prompt. The shell displays version and copyright information. Then, the user enters a list comprehension: 'numbers=[float(input(f"Enter Numbers {i+1}:"))for i in range(5)]'. The shell prompts for five numbers: 1:22, 2:44, 3:66, 4:98, and 5:34. After the last input, the shell executes 'print(f"The Average Is:{sum(numbers)/len(numbers)}")', which outputs 'The Average Is:51.2'. Finally, the user enters 'exit()' and the shell returns to the 'harshal@HARSHAL-LAP: ~\$' prompt.

```
harshal@HARSHAL-LAP: ~$ python3
Python 3.12.3 (main, Jan 8 2026, 11:30:50) [GCC 13.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> numbers=[float(input(f"Enter Numbers {i+1}:"))for i in range(5)]
Enter Numbers 1:22
Enter Numbers 2:44
Enter Numbers 3:66
Enter Numbers 4:98
Enter Numbers 5:34
>>> print(f"The Average Is:{sum(numbers)/len(numbers)}")
The Average Is:51.2
>>> exit()
harshal@HARSHAL-LAP: ~$
```