```
f_name=input("Enter your first name:")
l_name=input("Enter your second name:")
print(f"Greetings !!{f_name}{l_name}")
```

```
24mca60@projlabserver:~/py_lab/cycle1$ python3 greetings.py
Enter your first name:Yadhu
Enter your second name:Gopakumar
Greetings !!YadhuGopakumar
24mca60@projlabserver:~/py_lab/cycle1$
```

```
p_int=10
p_float=3.33
p_comp=1+2j

print("different number datatypes are:")
print(f"Float={p_float}[type={type(p_float)}]")
print(f"Integer={p_int}[type={type(p_int)}]")
print(f"complex={p_comp}[type={type(p_comp)}]")
```

```
24mca60@projlabserver: ~/py_lab/cycle1 Q

24mca60@projlabserver: ~/py_lab/cycle1$ python3 datatypes.py
different number datatypes are:
Float=3.33[type=<class 'float'>]
Integer=10[type=<class 'int'>]
complex=(1+2j)[type=<class 'complex'>]
24mca60@projlabserver: ~/py_lab/cycle1$
```

```
 \begin{array}{l} r= & \text{float(input("Enter circle radius:"))} \\ \text{if } r>0: \\ \text{print(f"area of the circle with radius ,} \{r\} \text{ is } = \{3.143*r*r\}") \\ \text{else:} \\ \text{print("invalid inpu!!t")} \end{array}
```

```
24mca60@projlabserver: ~/py_lab/cycle1 Q

24mca60@projlabserver: ~/py_lab/cycle1$ python3 area_circle.py
Enter circle radius:2
area of the circle with radius ,2.0 is =12.572

24mca60@projlabserver: ~/py_lab/cycle1$
```

```
bp=int(input("Enter basic pay:"))

if bp<0:
        print("Invalid input!!")
else:
        HRA=bp*0.1
        TA=bp*0.05
        T_Salary=bp+HRA+TA
        print(f"Total salary of basic pay {bp} is = {T_Salary}")</pre>
```

```
24mca60@projlabserver: ~/py_lab/cycle1 Q

24mca60@projlabserver: ~/py_lab/cycle1$ python3 salary_emp.py
Enter basic pay:10000
Total salary of basic pay 10000 is = 11500.0

24mca60@projlabserver: ~/py_lab/cycle1$
```

```
num1=float(input("Enter a number1:"))
num2=float(input("Enter a number 2:"))

print("Addition:",num1+num2)
print("Subtraction:",num1-num2)
print("Multiplication:",num1*num2)
print("Division:",num1/num2)
print("Modulus:",num1%num2)
```

```
24mca60@projlabserver: ~/py_lab/cycle1 Q

24mca60@projlabserver: ~/py_lab/cycle1$ python3 arithmatic.py
Enter a number1:12
Enter a number 2:3
Addition: 15.0
Subtraction: 9.0
Multiplication: 36.0
Division: 4.0
Modulus: 0.0
24mca60@projlabserver: ~/py_lab/cycle1$
```

s=input("Enter a String:")
n=int(input("enter Count:"))
print(f"output:\n{s*n}")

```
24mca60@projlabserver: ~/py_lab/cycle1 Q

24mca60@projlabserver: ~/py_lab/cycle1$ python3 copy_string.py
Enter a String:hai
enter Count:3
output:
haihaihai
24mca60@projlabserver: ~/py_lab/cycle1$
```

```
n=input("Enter a postive interger:")
sum=0
for i in range(1,4):
        sum=sum+int(n*i)
print(f"sum = {sum}")
```

```
24mca60@projlabserver: ~/py_lab/cycle1 Q

24mca60@projlabserver: ~/py_lab/cycle1$ python3 sum_of_mul.py
Enter a postive interger:3
sum = 369

24mca60@projlabserver: ~/py_lab/cycle1$
```

```
num1=int(input("enter number1:"))
num2=int(input("enter number2:"))
num3=int(input("enter number3:"))

if(num1>=num2) and (num1>=num3):
    print(f"{num1} is largest!!")
elif(num2>=num1) and (num2>=num3):
    print(f"{num2} is largest!!")
else:
    print(f"{num3} is largest!!")
```

```
24mca60@projlabserver: ~/py_lab/cycle1
                                                               Q
24mca60@projlabserver:~/py_lab/cycle1$ python3 largest_three.py
enter number1:23
enter number2:1
enter number3:4
23 is largest!!
24mca60@projlabserver:~/py_lab/cycle1$ python3 largest_three.py
enter number1:1
enter number2:45
enter number3:2
45 is largest!!
24mca60@projlabserver:~/py_lab/cycle1$ python3 largest_three.py
enter number1:3
enter number2:3
enter number3:89
89 is largest!!
24mca60@projlabserver:~/py_lab/cycle1$
```

```
24mca60@projlabserver: ~/py_lab/cycle1 Q

24mca60@projlabserver: ~/py_lab/cycle1$ python3 leap_year.py
Enter the year:2024
2024 is leap year

24mca60@projlabserver: ~/py_lab/cycle1$ python3 leap_year.py
Enter the year:1999
1999 is not leap year

24mca60@projlabserver: ~/py_lab/cycle1$
```

```
24mca60@projlabserver: ~/py_lab/cycle1 Q

24mca60@projlabserver: ~/py_lab/cycle1$ python3 ticket_rate.py
enter age:34
Ticket rate is 10

24mca60@projlabserver: ~/py_lab/cycle1$ python3 ticket_rate.py
enter age:5
Ticket rate is 7

24mca60@projlabserver: ~/py_lab/cycle1$ python3 ticket_rate.py
enter age:70
Ticket rate is 10

24mca60@projlabserver: ~/py_lab/cycle1$
```

```
import cmath  \begin{aligned} & \text{print}(\text{"Quadratic equation solver: } ax^2 + bx + c = 0\text{"}) \\ & \text{a=float}(\text{input}(\text{"Enter coefficiant of } x^2 \text{ (a):"})) \\ & \text{b=float}(\text{input}(\text{"Enter coefficiant of } x \text{ (b):"})) \\ & \text{c=float}(\text{input}(\text{"Enter constant value (c):"})) \\ & \text{d=}(b^**2)\text{-}(4^*a^*c) \\ & \text{sol1=(-b-cmath.sqrt(d))/(2*a)} \\ & \text{sol2=(-b+cmath.sqrt(d))/(2*a)} \\ & \text{print}(f\text{"solution 1: } \{\text{sol1}\}\text{"}) \\ & \text{print}(f\text{"solution 2: } \{\text{sol2}\}\text{"}) \end{aligned}
```

```
24mca60@projlabserver: ~/py_lab/cycle1 Q

24mca60@projlabserver: ~/py_lab/cycle1$ python3 quadratic.py

Quadratic equation solver: ax^2 + bx + c = 0

Enter coefficiant of x^2 (a):1

Enter coefficiant of x (b):5

Enter constant value (c):6

solution 1: (-3+0j)

solution 2: (-2+0j)

24mca60@projlabserver: ~/py_lab/cycle1$
```