

## 2. Basic I/O operation

### 1. Code, execute and debug programs that

#### a) Use i/o statements

```
num1=int(input("Enter a number: "))
num2=float(input("Enter a number: "))
sum=num1+num2
print("Sum of the { } and { } numbers = ".format(num1,num2),sum)
```

#### **Output:**

```
Enter a number: 10
Enter a number: 12.5
Sum of the 10 and 12.5 numbers = 22.5
```

#### b) Evaluate expressions and displays formatted output

```
n1=int(input("enter the first number"))
n2=float(input("enter the second number"))
sum=n1+n2
diff=n2-n1
mul=n1*n2
div=n1/n2
mod=n1%n2
pow=n1**n2
print("The sum of {0} and {1} is {2}".format(n1,n2,sum))
print("The difference of {1} and {0} is ".format(n1,n2),diff)
print("The multiplication of two number is %3.2f" %mul)
print("The quotient of two number is %3.4f" %div)
print("The reminder of two number is %d" %mod)
print("The power of {0} and {1} is " .format(n1,n2),pow)
```

#### **Output:**

```
The sum of 10 and 12.5 is 22.5
The difference of 12.5 and 10 is 2.5
The multiplication of two number is 125.00
The quotient of two number is 0.8000
The reminder of two number is 10
The power of 10 and 12.5 is 3162277660168.3794
```

**c) Evaluate expressions to examine the operator precedence**

```
a = 20
b = 10
c = 15
d = 5
e = 0
e = (a + b) * c / d
print("Value of (a + b) * c / d is ", e)
e = ((a + b) * c) / d
print("Value of ((a + b) * c) / d is ", e)
e = (a + b) * (c / d);
print("Value of (a + b) * (c / d) is ", e)
e = a + (b * c) / d
print("Value of a + (b * c) / d is ", e)
```

**Output:**

```
Value of (a + b) * c / d is 90.0
Value of ((a + b) * c) / d is 90.0
Value of (a + b) * (c / d) is 90.0
Value of a + (b * c) / d is 50.0
```