

Program for practice

Program 1

```
fn= input("enter source file name:") data=file(fn).read()
words=data.split() words.sort() for word in words: print word
```

Output

```
enter source file name: 'inputfile.txt'
apple control
doggy hai
hello
python sort
zebra
```

Program 2

```
def fact(n): if n==1: return n else: return
n*fact(n-1) n=int(input("enter a number")) print("the factorial of",
n,"is", fact(n))
```

Output enter a number 5
(the factorial of, 5, 'is', 120)

Program 3

```
n=20 for i in range(2,n+1): k=0 for j in
range(2,i//2+1): if(i%j==0): k=k+1
if(k<=0): print(i)
```

Output

```
2
3
5
7
11
13
17
19
```

Program 4

```
import time ltime=time.localtime()
print(time.strftime("%a %b %d %H:%M:%S %Z %Y",ltime))
```

Output

```
Fri Feb 03 11:40:17 India Standard Time 2023
```

Program 5

```
c=int(input("enter temperature in celsius")) f=((c*9/5)+32)
print("the equivalent temperature in fahernite+",f)
```

Output
enter temperature in celsius 32
(the equivalent temperature in fahernite+', 89)

Program 6

```
n=5 for i in range(1,n+1): print('*'*i)
for i in range(n,0,-1): print('*'*i)
```

Output

```
*
**
***
```

```
****
*****
*****
****
***
**
*
```

Program 7 str1="hello" str2="world" cstr=str1+str2
 print("string1:",str1); print("string2:",str2); print("concatenate of
 strings:",cstr) str3=cstr[3:5] print("substring:",cstr[3:5])

Output

```
('string1:', 'hello')
('string2:', 'world')
('concatenate of strings:', 'helloworld')
('substring:', 'lo')
```

Program 8

```
n1=int(input("enter number1:")) n2=int(input("enter number2:")) print(''
```

```
1.addition
2.subtraction
3.multiplication
4.division
5.modulus') ch=int(input("enter
your choice")); if(ch==1):
    print(n1,'+',n2,'=',n1+n2) elif(ch==2):
    print(n1,'-',n2,'=',n1-n2) elif(ch==3):
    print(n1,'*',n2,'=',n1*n2) elif(ch==4):
    print(n1,'/',n2,'=',n1/n2) elif(ch==5):
    print(n1,'% ',n2,'=',n1%n2) else: print("error"); Output
```

```
enter number1:3 enter number2:7
```

```
1.addition
2.subtraction
3.multiplication
4.division
5.modulus enter your choice2
(3, '-', 7, '=', -4)
```

Program 9 print(num3,'is of type',type(num3)) num1=5 print(num1,'is
 of type',type(num1));
 num2=2.0 print(num2,'is of type',type(num2));
 num3=1+2j

Output

```
(5, 'is of type', <type 'int'>)
(2.0, 'is of type', <type 'float'>)
((1+2j), 'is of type', <type 'complex'>)
```