1. Calculate Addition,Subtraction,Multiplication and Division from 2 numbers provided by user input.
->

```
a = float(input("Enter the First Number: "))
b = float(input("Enter the Second Number: "))

print("addition:-")

print("{} + {} = ".format(a, b))
print(a + b)

print("subtraction:-")

print("{} - {} = ".format(a, b))
print(a - b)

print("multiplication:-")

print("{} * {} = ".format(a, b))
print(a * b)

print("division:-")

print("{} / {} = ".format(a, b))
print(a / b)
```

Output :

```
>>> %Run 'add div.py'
  Enter the First Number: 5
  Enter the Second Number: 6
  addition:-
  5.0 + 6.0 =
  11.0
  subtraction:-
  5.0 - 6.0 =
  -1.0
  multiplication:-
  5.0 * 6.0 =
  30.0
  division:-
  5.0 / 6.0 =
  0.8333333333333334
```

2. Write Program for simple interest.
Simple Interest = (P x T x R)/100
->

```
def simple_interest(p,t,r):
    print('The principal is', p)
    print('The time period is', t)
    print('The rate of interest is',r)

    si = (p * t * r)/100

    print('The Simple Interest is', si)

P = int(input("Enter the principal amount :"))
T = int(input("Enter the time period :"))
R = int(input("Enter the rate of interest :"))
simple_interest(P,T,R)
```

Output :

```
>>> %Run 'P T R.py'
  Enter the principal amount :2000
  Enter the time period :5
  Enter the rate of interest :10
  The principal is 2000
  The time period is 5
  The rate of interest is 10
  The Simple Interest is 1000.0
```

3. Create a Marksheet for 5 subjects and calculate total, average and grade with if else.
->

```
a=float(input("enter your python marks="))
b=float(input("enter your cyber security marks="))
c=float(input("enter your j2EE marks="))
d=float(input("enter your project marks="))
e=float(input("enter your leb asignment marks="))

tot = a + b + c + d + e
print(f"Total marks = " , tot)
avg = tot / 5
print(f"average marks = " , avg)

if avg >= 91 and avg <= 100:
    print("Your Grade is A1")
elif avg >= 81 and avg < 91:
    print("Your Grade is A2")
elif avg >= 71 and avg < 81:
    print("Your Grade is B1")
elif avg >= 61 and avg < 71:
    print("Your Grade is B2")
elif avg >= 51 and avg < 61:
    print("Your Grade is C1")
elif avg >= 41 and avg < 51:
    print("Your Grade is C2")
elif avg >= 33 and avg < 41:
    print("Your Grade is D")
elif avg >= 21 and avg < 33:
    print("Your Grade is E1")
elif avg >= 0 and avg < 21:
    print("Your Grade is E2")
```

Output :

```
>>> %Run marksheet.py
  enter your python marks=78
  enter your cyber security marks=82
  enter your j2EE marks=69
  enter your project marks=70
  enter your leb asignment marks=89
  Total marks =  388.0
  average marks =  77.6
  Your Grade is B1
```

4.Write a program to add employee names in a list EMPNAME and perform add,remove and append methods.

```
list=["roman","domnic","brian","tej"]
print(list)
list.append("jecob")
print(list)
list.insert(1, "ramzy")
print(list)
list.remove("roman")
print(list)
```

```
>>>
= RESTART: C:/Users/yashm/AppData/Local/Programs/Python/Python312/insert remove
append.py
['roman', 'domnic', 'brian', 'tej']
['roman', 'domnic', 'brian', 'tej', 'jecob']
['roman', 'ramzy', 'domnic', 'brian', 'tej', 'jecob']
['ramzy', 'domnic', 'brian', 'tej', 'jecob']
>>>
```

5. Print 1 to 10 and 10 to 1 with for loop.
->

```
for i in range(10, 0, -1):
    print(i)


for i in range(1, 11):
    print(i)
```

Output :

```
>>
== RESTART: C:/Users/yashm/AppData/Local/Programs/Python/Python312/1 to 10.py
10
9
8
7
6
5
4
3
2
1
1
2
3
4
5
6
7
8
9
10
>>
```