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=

```
Enter the First Number: 78
Enter the Second Number: 65
addition:-
78.0 + 65.0 =
143.0
subtraction:-
78.0 - 65.0 =
13.0
multiplication:-
78.0 * 65.0 =
5070.0
division:-
78.0 / 65.0 =
1.2
```

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=

```
Enter the principal amount :5000
Enter the time period :2
Enter the rate of interest :9
The principal is 5000
The time period is 2
The rate of interest is 9
The Simple Interest is 900.0
```

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=

```
enter your python marks=78
enter your cyber security marks=86
enter your j2EE marks=76
enter your project marks=97
enter your leb asignment marks=88
Total marks =  425.0
average marks =  85.0
Your Grade is A2
```

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)
```

OUTPUT=

```
['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(1, 11):
    print(i)
```

OUTPUT=

```
1
2
3
4
5
6
7
8
9
10
```