

1. Calculate average of 5 numbers.

Code: -

```
n=int(input("Enter the number of elements to be inserted: "))
a=[]
for i in range(0,n):
    elem=int(input("Enter element: "))
    a.append(elem)
avg=sum(a)/n
print("Average of elements in the list",round(avg,2))
```

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2. Check whether number is even or odd.

Code: -

```
numbers = []
n = int(input("Enter number of elements: \t"))

for i in range(1, 1 + n):
    allElements = int(input("Enter Element: \t"))
    numbers.append(allElements)

even_lst = []
odd_lst = []

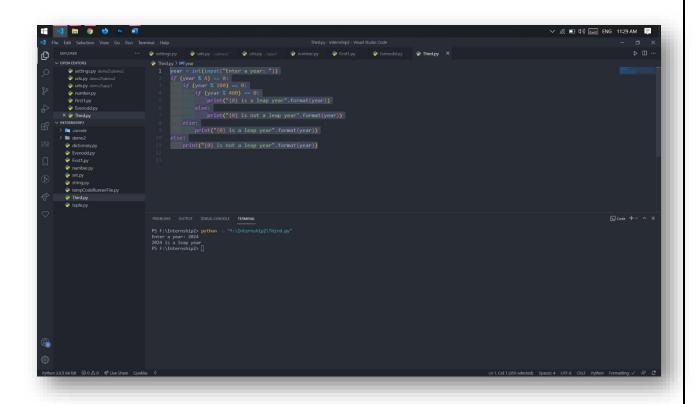
for j in numbers:
    if j % 2 == 0:
        even_lst.append(j)
    else:
    odd_lst.append(j)
    print("Even numbers list \t", even_lst)
    print("Even numbers list \t", odd_lst)

print("Even numbers list \t", odd_lst)
```

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3. Take a year and check whether it is leap year or not Code :-

```
1  year = int(input("Enter a year: "))
2  if (year % 4) == 0:
3    if (year % 100) == 0:
4        if (year % 400) == 0:
5            print("{0} is a leap year".format(year))
6            else:
7            print("{0} is not a leap year".format(year))
8            else:
9            print("{0} is a leap year".format(year))
10            else:
11            print("{0} is not a leap year".format(year))
```



4. Take a number and check whether it is zero, positive or negative. Code: -

```
num = float(input("Enter a Number "))

if num > 0:
    print("{0} is a positive number ".format(num))

elif num == 0:
    print("{0} is zero ".format(num))

else:
    print("{0} is negative number " .format(num))

print("{0} is negative number " .format(num))
```

5. Take 2 numbers and display greatest number. (Also check equal number condition) -

Code: -

```
num1 = float(input("Enter First Number :"))
num2 = float(input("Enter Second Number : "))

if (num1 > num2):
    largest = num1
else:
    largest = num2

print("The Largest Numberis : ", largest)
```

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6. Take a number and find factorial of that number. Code: -

```
num = int(input("Enter a Number :"))

factorial = 1
if num < 0:
    print("Factorial Does not exist ")

elif num == 0:
    print("The Factorial of 0 is 1")

else:
    for i in range(1, num + 1):
        factorial = factorial * i
    print("The Facorial of ", num, "is ", factorial)
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```

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7. Write a program to swap 2 numbers using third variable.

Code:

```
num1 = input("Enter Number one_____")
num2 = input("Enter number Two____")

print("Value of Number 1 before Swapping-----", num1)
print("Value of Number 2 before Swapping-----", num2)

temp = num1
num1 = num2
num2 = temp

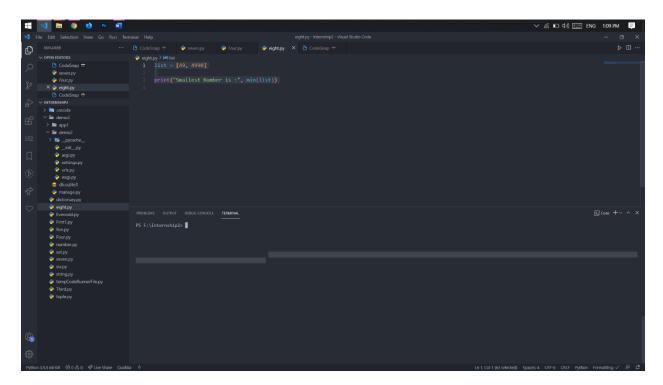
print("Value of num1 after Swapping-----", num1)
print("Value of num2 After Swapping-----", num2)
```

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8. Take 2 numbers and find smallest number.

Code:

Output:



9. Take a number and check whether it is zero, positive or negative using nested IF...ELSE statement.

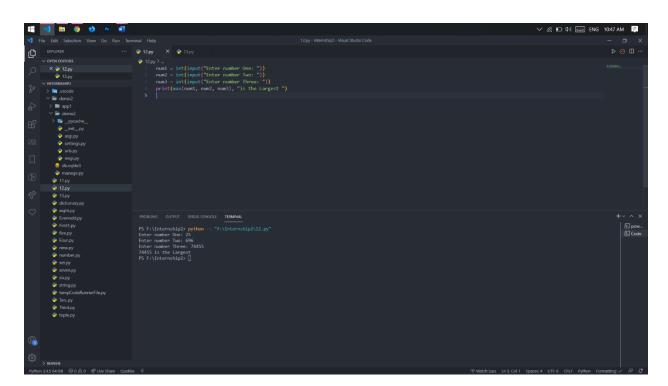
Code:

```
num = float(input("Enter a Number :"))
if num >= 0:
    if num == 0:
        print("The Number is Zero")
else:
        print("Positive Number")
else:
    print("Negataive Number")
```

10. Take 3 numbers and find greatest number using nested IF.... ELSE statement.

Code:

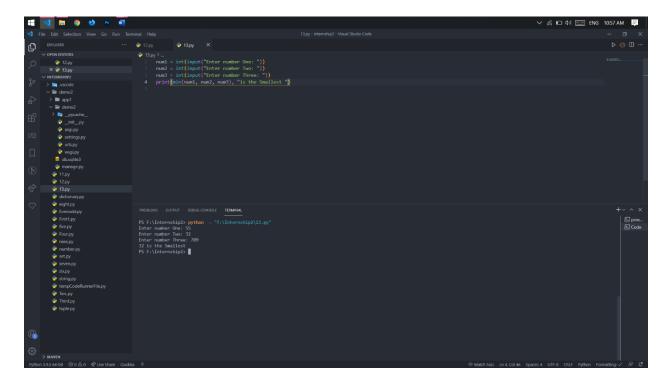
```
num1 = int(input("Enter number One: "))
num2 = int(input("Enter number Two: "))
num3 = int(input("Enter number Three: "))
print(max(num1, num2, num3), "is the Largest ")
```



11. Take 3 numbers and find smallest number using logical operator.

Code: -

```
num1 = int(input("Enter number One: "))
num2 = int(input("Enter number Two: "))
num3 = int(input("Enter number Three: "))
print(min(num1, num2, num3), "is the Smallest ")
```



12. Write a program to swap 2 numbers without taking third variable.

Code:

```
1  a = input("Enter Number One : ")
2  b = input("Enter Number Two : ")
3
4  print("Before Swapping")
5  print("Value of a :", a, "and b :", b)
6
7  a, b = b, a
8
9  print("After Swapping :")
10  print("Value of a :", a, "Value of b : ", b)
```

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```

13. Take starting number and ending number from the user and print following series.

Code:

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