Digital Assessment 1

PMDS504P - Regression Analysis and Predictive Models Lab

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MSc DATA SCIENCE

In [ ]:

1. Greatest of Three Numbers

In [10]:
```python
ns = input("Enter 3 numbers seperated by ',': ")
nums = ns.split(',')
nums = list(map(lambda x: float(x), nums))
print(f'Maximum or these 3 numbers is: {max(nums)}')
```

```
Maximum or these 3 numbers is: 6.0
```

2. Multiplication Table

In [14]:
```python
n = float(input("Enter a number:"))
print(f'Table of {n} is: \n')
for i in range(1, 11):
    print(f'{i} times of {n} is {i*n}')
```

```
Table of 18.0 is:

1 times of 18.0 is 18.0
2 times of 18.0 is 36.0
3 times of 18.0 is 54.0
4 times of 18.0 is 72.0
5 times of 18.0 is 90.0
6 times of 18.0 is 108.0
7 times of 18.0 is 126.0
8 times of 18.0 is 144.0
9 times of 18.0 is 162.0
10 times of 18.0 is 180.0
```

3. Print Numbers from 1 to 10 Using a For Loop

In [15]:
```python
for i in range(1, 11):
    print(i)
```

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

4. Single-line if-else statement

```
In [18]: n = float(input("Enter a number:"))
         print(f'{n} is Negative Number') if(n<0) else print(f'{n} is Posative Number')
```

```
-5.0 is Negative Number
```

5. Mark Range (Pass or Fail)

```
In [21]: n = float(input("Enter your marks:"))
         print(f'Sorry! You failed in examination !') if(n<40) else print(f'Congratulatio
```

```
Sorry! You failed in examination !
```

6. Checking Vowels

```
In [25]: char = input('Enter a alphabet:')
         v = ['A', 'E', 'I', 'O', 'U', 'a', 'e', 'i', 'o', 'u']
         if char in v:
             print(f'{char} is a vowel')
         else:
             print(f'{char} is a consonent')
```

```
G is a consonent
```

7. Sum and Average Using While Loop

```
In [28]: ns = input("Enter 3 numbers seperated by ',': ")
         nums = ns.split(',')
         nums = list(map(lambda x: float(x), nums))
         summ = 0
         i=0
         while(i<len(nums)):
             summ = summ + nums[i]
             i = i+1

         print(f'Average is: {summ/len(nums)}')
```

```
Average is: 3.0
```

8. Program to Print Fibonacci Sequence up to a Given Limit

```
In [36]:  n = int(input("Enter the maximum range:"))
          print(f'Fibonnaci series till {n} is:')
          if n>=0:
              a=0
              b=1
              print(a, end=" ")
              print(b, end=" ")
              for i in range(2, n):
                  c = a+b
                  a = b
                  b = c
                  if c <= n:
                      print(c, end=" ")
                  else:
                      break
          else:
              print("Please enter a posative number !")

          Fibonnaci series till 20 is:
          0 1 1 2 3 5 8 13
```

```
In [ ]:
```