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Problem:
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1. Python Program to Compute the Power of a Number

2.Python Program to Find LCM

```
def lcm(a, b):
    if a > b:
        greater = a
    else:
        greater = b
    while(True):
        if((greater % a == 0) and (greater % b == 0)):
            lcm = greater
            break
        greater += 1
    return lcm
n1 = 54
n2 = 24
print("The L.C.M. is", lcm(n1, n2))
```

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IDLE Shell 3.10.4
File Edit Shell Debug Options Window Help
    Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
         ====== RESTART: C:/Users/Nandini Avinashi/Documents/ass.py =====
   The L.C.M. is 216
3. Python Program to check if given array is Monotonic
def Monotonic(A):
return (all(A[i] \leq A[i + 1] for i in range(len(A) - 1)) orall(A[i] \geq A[i + 1] for i in
range(len(A) - 1))
A = [6, 7, 4, 4]
print(Monotonic(A))
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    ====== RESTART: C:/Users/Nandini Avinashi/Documents/ass.py =========
   False
4. Python program to print all negative numbers in a range
start = int(input("Enter the start of range: "))
end = int(input("Enter the end of range: "))
for i in range(start, end + 1):
    if i < 0:
     print(i, end = " ")
IDLE Shell 3.10.4
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>>>
     ------ RESTART: C:/Users/Nandini Avinashi/Documents/ass.py
    Enter the start of range: -10
    Enter the end of range: 9
    -10 -9 -8 -7 -6 -5 -4 -3 -2 -1
```

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5.A. Python program to split and join a string
A = 'Start your journey today'
print(A.split(" "))
print(" ".join(A.split()))
lDLE Shell 3.10.4
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    ======= RESTART: C:/Users/Nandini Avinashi/Documents/ass.py =========
    ['Start', 'your', 'journey', 'today']
    Start_your_journey_today
B.Python Check if a given string is binary string or not
import re
input="1010"
c=re.compile('[^01]')
if(len(c.findall(input))):
  print("No its not binary")
else:
  print("Yes it is binary")
IDLE Shell 3.10.4
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    ======== RESTART: C:/Users/Nandini Avinashi/Documents/ass.py ==========
    Yes it is binary
6.A. Python program to convert time from 12 hour to 24 hour format
def convert24(str1):
  if str1[-2:] == "AM" and str1[:2] == "12":
     return "00" + str1[2:-2]
  elif str1[-2:] == "AM":
     return str1[:-2]
```

elif str1[-2:] == "PM" and <math>str1[:2] == "12":

return str1[:-2]

```
def difference(h1, m1, h2, m2):
      t1 = h1 * 60 + m1
      t2 = h2 * 60 + m2
      if (t1 == t2):
             print("Both are same times")
             return
      else:
             diff = t2-t1
      h = (int(diff / 60)) \% 24
      m = diff \% 60
      print(h, ":", m)
if name == " main ":
      difference(8, 30, 11, 45)
      difference(12, 23, 18, 54)
      difference(15, 20, 15, 20)
IDLE Shell 3.10.4
File Edit Shell Debug Options Window Help
    Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
    ======= RESTART: C:/Users/Nandini Avinashi/Documents/ass.py =========
    3:15
    6:31
    Both are same times
```