## **ANSWERS**:

```
#1.to compute power of number
base = 3
exponent = 5
result = pow(base, exponent)
print("power of number: " + str(result))
another method:
base = 2
exponent = 9
result = 1
for exponent in range(exponent, 0, -1):
    result *= base
print("Answer = " + str(result))
```

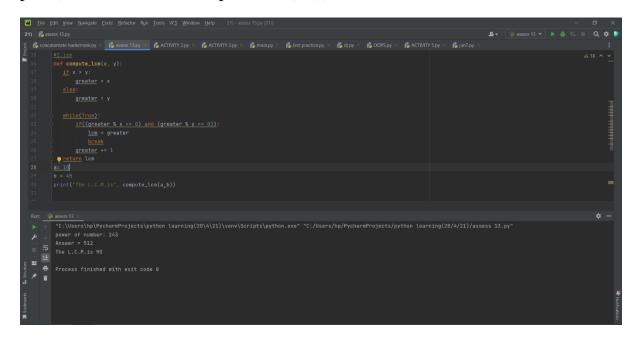
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#2.lcm
def compute_lcm(x, y):
    if x > y:
        greater = x
    else:
        greater = y

while(True):
    if((greater % x == 0) and (greater % y == 0)):
        lcm = greater
        break
        greater += 1
    return lcm
a = 10
b = 45
print("The L.C.M.is", compute_lcm(a,b))
```

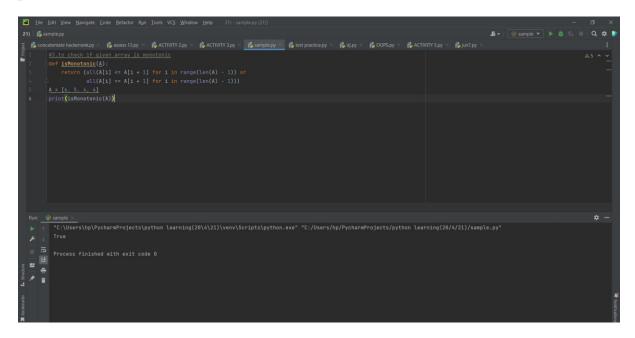


#3.to check if given array is monotonic def isMonotonic(A): return (all(A[i] <= A[i+1] for i in range(len(A) - 1)) or

all(A[i] >= A[i + 1] for i in range(len(A) - 1)))

A = [6, 5, 4, 4]

print(isMonotonic(A))



```
#4.to print negative numbers in a range start, end = -4, 0 for num in range(start, end + 1): if num < 0: print(num, end=" ")
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#5.a)split and jon a string
qs= 'Python for beginners'
print(qs.split(" "))
print("-".join(qs.split()))

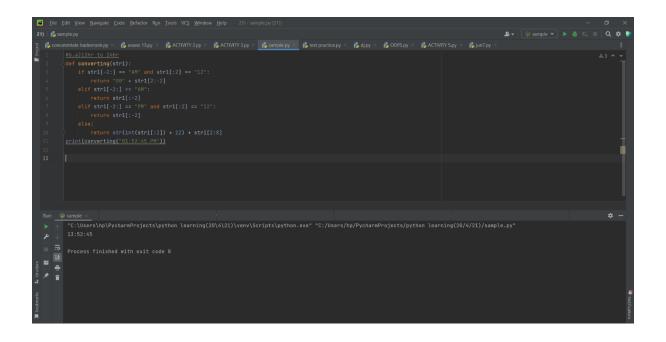
#5.b)to check if the string is binary
import re
sampleInput = "10010"
c = re.compile('[^01]')
if (len(c.findall(sampleInput))):
    print("No its not binary")
else:
    print("Yes it is binary")
```

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#6.a)12hr to 24hrs:

def converting(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 str1[:2] == "12":
        return str1[:-2]
    else:
        return str(int(str1[:2]) + 12) + str1[2:8]

print(converting("01:52:45 PM"))
```



#6.b)diff btw current time and given time def differences\_time(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__":

    differences_time(6, 20, 20, 45)

    differences_time(8, 00, 8, 50)

    differences_time(13, 10, 13, 20)
```

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