```
Start coding or generate with AI.
x = [1,2,3,4,5]
print(x[0], x[1], x[2], x[3], x[4])
→ 1 2 3 4 5
x = [1,2,3,4,5]
for i in x: # for loop
     print(i)
→ 1
     3
     4
x = [1, 2, 3, 4, 5]
sum = 0
for i in x: # for loop
   sum = sum + i
print("Sum: ", sum)
→ Sum: 15
x = [1, 2, 3, 4, 5]
mul = 1
for i in x:
   mul = mul * i
print("Mul:", mul)
→ Mul: 120
x = [1, 2, 3, 4, 5]
squares = [i ** 2 for i in x]
print("Squares:", squares)
→ Squares: [1, 4, 9, 16, 25]
# output = ['odd', 'even', 'odd', even]
x = [1, 2, 3, 4, 5]
output = []
for i in x:
    if i % 2 == 0:
       output.append("even")
    else:
       output.append("odd")
print(output)
['odd', 'even', 'odd', 'even', 'odd']
name = 'Garima Rokaha' # no of vowels => aeiou
count = 0
for i in name:
    if i in 'aeiouAEIOU':
       count += 1
print(count)
```

students =['Alan', 'Bil', 'Ramesh', 'Corry', 'Ram', 'Shyam Bahadur', 'Gita']

**→** 4

 $output = \{\}$ 

```
for student in students:
    output.update({student: len(student)})
print(output)
→ {'Alan': 4, 'Bil': 3, 'Ramesh': 6, 'Corry': 5, 'Ram': 3, 'Shyam Bahadur': 13, 'Gita': 4}
students =['Alan', 'Bil', 'Ramesh', 'Corry', 'Ram', 'Shyam Bahadur', 'Gita']
output = \{\}
i = 0
for student in students:
    output.update({student: i})
    i += 1
print(output)
🚁 {'Alan': 0, 'Bil': 1, 'Ramesh': 2, 'Corry': 3, 'Ram': 4, 'Shyam Bahadur': 5, 'Gita': 6}
range(0,10)
→ range(0, 10)
list(range(0,10))
→ [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
for i in range (0, 10):
    print(i)
→ 0
     3
     6
     8
list(range(0,10,2))
→ [0, 2, 4, 6, 8]
students = ['Alan', 'Bil', 'Ramesh', 'Corry', 'Ram', 'Shyam Bahadur', 'Gita']
output ={}
for i in range (0, len(students)):
    output.update({students [i]: i})
print(output)
₹ ('Alan': 0, 'Bil': 1, 'Ramesh': 2, 'Corry': 3, 'Ram': 4, 'Shyam Bahadur': 5, 'Gita': 6}
```

```
# convert US price to Nepali price
us_price = {
    'milk': 2.03,
    'break': 2.6,
    'iphone': 999,
    'butter': 3.6,
    'meat': 5,
    'mobile': 500,
    'laptop': 1000,
    'television': 340
}
nep_price = {}
for k, v in us_price.items():
    nep_price.update({k: v * 137.3})
print(nep_price)
🛬 {'milk': 278.719, 'break': 356.98, 'iphone': 137162.7, 'butter': 494.2800000000003, 'meat': 686.5, 'mobile': 68650.0, 'laptop': 137300.
# convert US price to Nepali price with 13 percent tax
us_price = {
    'milk': 2.03,
    'break': 2.6,
    'iphone': 999,
    'butter': 3.6,
    'meat': 5,
    'mobile': 500,
    'laptop': 1000,
    'television': 340
}
nep_price = {}
for k, v in us_price.items():
    nep_price.update({k: v * 137.3 * 1.13})
print(nep_price)
🛬 {'milk': 314.95246999999995, 'break': 403.3873999999996, 'iphone': 154993.851, 'butter': 558.5364, 'meat': 775.7449999999999, 'mobile':
# convert US price to Nepali price
us_price = {
    'milk': 2.03,
    'break': 2.6,
    'iphone': 999,
    'butter': 3.6,
    'meat': 5,
    'mobile': 500,
    'laptop': 1000,
    'television': 340
nep_price = {}
for k, v in us_price.items():
   if v > 5:
       nep_price.update({k: v * 137.3 * 1.20})
    else:
       nep_price.update({k: v * 137.3 * 1.13})
print(nep_price)
🛨 {'milk': 314.95246999999995, 'break': 403.3873999999996, 'iphone': 164595.24000000002, 'butter': 558.5364, 'meat': 775.7449999999999, '
```

```
# pass, continue, break
age = 17
if age < 18:
     Cell In[45], line 3
     _IncompleteInputError: incomplete input
age = 17
if age < 18:
   pass
age = 17
if age < 18:
   pass
print("Hello")
→ Hello
numbers = [1,2,3,4,5,6,10]
sum = 0
for i in numbers:
    if i == 6:
       pass
    else:
       sum += i
print("total sum after skipping 6 is :" ,sum)
total sum after skipping 6 is : 25
numbers = [1,2,3,4,5,6,10]
sum = 0
for i in numbers:
   if i == 6:
       pass
    sum += i
print(sum)
→ 31
numbers = [1,2,3,4,5,6,10]
sum = 0
for i in numbers:
    if i == 6:
       continue
       # skip the currently iterated item
       # does not run anything after continue
       # and jumps to next item
    sum += i
print(sum)
→ 25
numbers = [1,2,3,4,5,6,10]
sum = 0
for i in numbers:
```

if i == 3:

```
break # terminate from loop
    sum += i
print(sum)
→ 3
names = ['Ram', 'Shyam', 'Gita', 'Sita']
foods = ['momo', 'chawmein', 'thukpa']
for name in names:
    for food in foods:
        print(f"{name} eats {food}")
 → Ram eats momo
     Ram eats chawmein
     Ram eats thukpa
     Shyam eats momo
     Shyam eats chawmein
     Shyam eats thukpa
     Gita eats momo
     Gita eats chawmein
     Gita eats thukpa
     Sita eats momo
     Sita eats chawmein
     Sita eats thukpa
```

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