

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
2
3
4
5

```
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)
```

↔ 4

```
students=['Alan', 'Bil', 'Ramesh', 'Corry', 'Ram', 'Shyam Bahadur', 'Gita']
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
1
2
3
4
5
6
7
8
9

```
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
```

```
# convert US price to Nepali price with 13 percent tax
```

```
# convert US price to Nepali price
```

```
# 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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