```
5
→ 5
import keyword
keyword.kwlist
→ ['False',
       'None',
'True',
       'and',
       'as',
       'assert',
       'async',
'await',
       'break',
       'class',
       'continue',
       'def',
       'del',
'elif',
       'else',
       'except',
'finally',
       'for',
       'from',
       'global',
       'if',
       'import',
       'in',
       'lambda',
       'nonlocal',
       'not',
       'or',
       'pass',
       'raise',
'return',
       'try',
'while',
       'with',
       'yield']
len(keyword.kwlist)
→ 35
a=10
а
→ 10
type(a)
→ int
a=2e2
а
<del>_____</del> 200.0
type(a)
→ float
a=True
b=False
a+b
→ 1
a-b
```

```
<del>_____</del> 1
a*b
→ 0
a/b
₹
     {\sf ZeroDivisionError}
                                                Traceback (most recent call last)
     <ipython-input-12-aae42d317509> in <cell line: 0>()
     ----> 1 a/b
     ZeroDivisionError: division by zero
 Next steps: (Explain error
type(a)
→ bool
c=10+2j
type(c)
→ complex
c.real
→ 10.0
c.imag
<del>→</del> 2.0
d=5+5j
c+d
→ (15+7j)
c-d
→ (5-3j)
c*d
→ (40+60j)
c/d
→ (1.2-0.8j)
s='Hello'
    'Hollo'
s='''hi,
hello world
    'hi \nhalla wanld\n'
int(2.3)
```

```
→ 2
int(23.222222)
→ 23
int(5+6j)
₹
                                                Traceback (most recent call last)
     <ipython-input-23-0e0416630bb5> in <cell line: 0>()
     ----> 1 int(5+6j)
     TypeError: int() argument must be a string, a bytes-like object or a real number, not 'complex'
 Next steps: (Explain error
int('hi')
     ------
     ValueError
                                                Traceback (most recent call last)
     <ipython-input-60-af01c7eabe7b> in <cell line: 0>()
     ----> 1 int('hi')
     ValueError: invalid literal for int() with base 10: 'hi'
 Next steps: (Explain error
int("10")
<del>→</del> 10
float(False)
<del>→</del> 0.0
float(6+5j)
     TypeError
                                                Traceback (most recent call last)
     <ipython-input-63-f9e6bae6f287> in <cell line: 0>()
     ----> 1 float(6+5j)
     TypeError: float() argument must be a string or a real number, not 'complex'
 Next steps: (Explain error
float('hi')
     ValueError
                                                Traceback (most recent call last)
     <ipython-input-64-4db454aaf92e> in <cell line: 0>()
     ----> 1 float('hi')
     ValueError: could not convert string to float: 'hi'
 Next steps: ( Explain error
float('10')
→ 10.0
print(bool(9))
print(bool(9.9))
print(bool('9'))
print(bool(9 + 9j))
```

```
conditional statements.ipynb - Colab
print(bool(_))
print(bool())
→ True
     True
     True
     True
     True
     False
str(2)
str(2.2)
str(6+5j)
    '(6:Ei)'
str(False)
Conditional statements in python
```

```
if True:
  print("Hello")
→ Hello
if False:
  print("Hello")
if True:
  print('hello')
print('world')
→ hello
     world
x=10
y=x%2
if y==0:
  print('yes')
→ yes
x = 5
r = x \% 2
if r == 0:
    print('Even number')
print('odd number')
→ odd number
x = 19
r = x \% 2
if r == 0:
    print('Even number')
if r != 0:
    print('odd number')
→ odd number
```

```
x = 4
r = x \% 2
if r == 0:
    print('Even number')
    if x>5:
       print('greater number')
else:
    print('Odd Number')
x = 9
if x == 1:
    print('one')
elif x == 2:
   print('Two')
elif x == 3:
    print('Three')
elif x == 4:
    print('four')
    print('number not found')
number not found
i = 1
while i<=5:
    print('data science')
   j = 1
    while j<=4:
        print('technology')
       j = j + 1
    i = i + 1
    print()
→ data science
     technology
     technology
     technology
     technology
     data science
     technology
     technology
     technology
     technology
i = 1
while i <= 2 :
    j = 0
    while j \le 2:
        print(i*j, end=" ")
```

```
j += 1
    print()
    i += 1
→ 0 1 2
     0 2 4
name = 'Shyamili'
for i in name:
    print(i)
₹
     У
     а
     m
     i
for i in [2, 3, 7.8, 'hi']:
   print(i)
₹
    2
     7.8
for i in range(1,51):
    if i%5==0 :
        print(i)
→ 5
     10
     15
     20
     25
     30
     35
     40
     45
     50
for i in range(1,51):
    if i%5!=0 :
        print(i)
<u>→</u> 1
     3
     4
     8
     9
     11
     12
     13
     14
     16
     17
     18
     19
     21
     22
     23
     24
     26
     27
     28
     29
     31
     32
     33
```

```
36
     37
     38
     39
     41
     42
     43
     44
     46
     47
     48
     49
for i in range(1,5):
    i=i+1
    print('# # # # ')
→ # # # #
     # # # #
     # # # #
     # # # #
for j in range(4):
    print('#', end=" ")
for j in range(4):
    print(' #', end=" ")
<del>_____</del> # # # # # # # #
for j in range(4):
    print('#', end=" ")
print()
for j in range(4):
    print('#', end=" ")
print()
for j in range(4):
    print('#', end=" ")
print()
for j in range(4):
    print('#', end=" ")
→ # # # #
     # # # #
     # # # #
     # # # #
for i in range(4):
    for j in range(i+1):
        print('#', end = " ")
    print()
₹
    #
     # #
     # # #
     # # # #
for i in range(1,5):
  print('#'*i)
<del>____</del> #
     ###
     ####
for i in range(1,5):
    for j in range(4):
        if i>j:
            print("#",end=" ")
```

```
print()
<del>_____</del> #
     # #
     # # #
for i in range(4):
    for j in range(i):
        print('#', end=" ")
    print()
<del>_</del>
     # #
     # # #
for i in range(4):
    for j in range(4-i):
       print('#', end=" ")
    print()
<del>_____</del> # # # #
     # # #
     # #
nums = [12,14,18,21,25,20]
for num in nums:
    if num % 5 == 0:
        print(num)
→ 25
     20
nums = [12,14,18,21,20,25]
for num in nums:
    if num % 5 == 0:
        print(num)
        break
→ 20
nums = [7,14,18,21,23,27]
for num in nums:
    if num % 5 == 0:
        print(num)
        break
    else:
        print('Number Not Found')
Number Not Found
     Number Not Found
nums = [7,14,18,21,23,27]
for num in nums:
    if num % 5 == 0:
        print(num)
        break
else:
        print('Number Not Found')
Number Not Found
from array import \ast
arr = array('i',[])
```

```
n = int(input('Enter the length of the array'))
for i in range(5):
    x = int(input('Enter the next value'))
    arr.append(x)
print(arr)

→ Enter the length of the array5

     Enter the next value5
     Enter the next value5
     Enter the next value5
     Enter the next value5
     Enter the next value4
     array('i', [5, 5, 5, 5, 4])
from array import *
arr = array('i',[])
n = int(input('Enter the length of the array'))
for i in range(5):
    x = int(input('Enter the next value'))
    arr.append(x)
print(arr)

    Enter the length of the array6

     Enter the next value1
     Enter the next value2
     Enter the next value3
     Enter the next value4
     Enter the next value5
     array('i', [1, 2, 3, 4, 5])
5
```