

Some screenshots of the work surrounding problem 3:

```
(base) classnotes +18:~201 [🌐📄🔍👍👎]
> python
Python 3.12.8 | packaged by Anaconda, Inc. | (main, Dec 11 2024, 16:31:09) [GCC 11.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> x = 0b101010
>>> x
42
>>> |
```

```
// A. 2fab_16 to decimal
Python 3.12.8 | packaged by Anaconda, Inc. | (main, Dec 11 2024, 16:31:09) [GCC 11.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> x = 0x2fab
>>> x
12203

// B. 417_8 to decimal
Python 3.12.8 | packaged by Anaconda, Inc. | (main, Dec 11 2024, 16:31:09) [GCC 11.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> x = 0o417
>>> x
271

// C. 21201_3 to decimal
Python 3.12.8 | packaged by Anaconda, Inc. | (main, Dec 11 2024, 16:31:09) [GCC 11.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> x = int("21201", 3)
>>> x
208
```

```
(base) classnotes +18:~201 [🌐📄🔍👍👎]
> python
Python 3.12.8 | packaged by Anaconda, Inc. | (main, Dec 11 2024, 16:31:09) [GCC 11.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> x = 0b11101
>>> x
29
>>> x = 0b00000111
>>> x
7
>>> x = 0b111
>>> x
7
>>> x = 0b11100111
>>> x
231
>>> _
```

```
Python 3.12.8 | packaged by Anaconda, Inc. | (main, Dec 11 2024, 16:31:09) [GCC 11.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> x = 0b11101
>>> x
29
>>> x = 0b00000111
>>> x
7
>>> x = 0b111
>>> x
7
>>> x = 0b11100111
>>> x
231
```

```
(base) classnotes +65:-3 [📄👍]
❶ > python
Python 3.12.8 | packaged by Anaconda, Inc. | (main, Dec 11 2024, 16:31:09) [GCC 11.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> 0b01001001100111101000000000000000
1235124224
>>>
>>> 0b10100111111001100110000000000000
2816892928
>>> |
```

## bin() in Python

Last Updated : 15 Nov, 2023



Python bin() function returns the binary string of a given integer. bin() function is used to convert integer to binary string. In this article, we will learn more about Python bin() function.

### Example

In this example, we are using the bin() function to convert integer to binary string.

Python3

```
x = bin(42)
print(x)
```

### Output

```
0b101010
```