Lab - Decimal To Binary Program

There are many ways to convert decimal to binary in python. Since we weren't specified on what we can and cannot use to perform this lab, I will write a program that utulizes a function from the **numpy** module called "**binary_repr**" to perform this lab.

```
from numpy import binary_repr # Function helps converting dec to bin
```

```
# Function that converts decimal number to binary using binary_repr
def Decimal_To_Binary(decimalNum):
  print('Decimal number {} to Binary equivalent is {}'.format(decimalNum, binary_repr(decimalNum)))


if __name__ == '__main__':
  decNum = int(input("Enter any Decimal number to convert into Binary equivalent: "))
  Decimal_To_Binary(decNum)
```

Testing the program on a few examples:

```
! python3 decimal_to_binary_program.py
```

```
    Enter any Decimal number to convert into Binary equivalent: 17
    Decimal number 17 to Binary equivalent is 10001
```

```
! python3 decimal_to_binary_program.py
```

```
    Enter any Decimal number to convert into Binary equivalent: 5
    Decimal number 5 to Binary equivalent is 101
```

```
! python3 decimal_to_binary_program.py
```

```
    Enter any Decimal number to convert into Binary equivalent: 4785
    Decimal number 4785 to Binary equivalent is 1001010110001
```

References Used:

https://www.geeksforgeeks.org/python-program-to-covert-decimal-to-binary-number

https://www.w3resource.com/numpy/binary-operations/binary-repr.php

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