

Assignment-3: Type Conversion

1. Write a python script to convert a number into str type.

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> x=10
>>> type(x)
<class 'int'>
>>> y=str(x)
>>> type(y)
<class 'str'>
```

2. Write a python script to print Unicode of the character 'm'

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> x = 'm'
>>> ord(x)
109
```

3. Write a python script to print character representation of a given unicode 100.

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> x=100
>>> chr(x)
'd'
```

4. Write a python script to print any number and its binary equivalent

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # any number into binary number
>>> x = 12345
>>> bin(x)
'0b11000000111001'
```

5. Write a python script to print any number and its octal equivalent.

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # any number to octal number:
>>> x =12345
>>> oct(x)
'0o30071'
```

6. Write a python script to print any number and its hexadecimal equivalent.

bin

```
IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # any number to hexadecimal number
>>> x = 12345
>>> hex(x)
'0x3039'
>>>
```

7. Write a python script to store binary number 1100101 in a variable and print it in decimal format.

```
IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # Binary number to decimal format.
>>> x = 0b1100101
>>> x
101
>>>
```

8. Write a python script to store a hexadecimal number 2F in a variable and print it in octal format.

```
IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # Hexadecimal to octal format
>>> x = 0x2F
>>> oct(x)
'0o57'
>>>
```

9. Write a python script to store an octal number 125 in a variable and print it in binary format.

```
IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # Octal number to Binary number
>>> x = 0o125
>>> bin(x)
'0b1010101'
>>>
```

10. Write a python script to add two numbers 25 (in octal) and 39 (in hexadecimal) and display the result in binary format.

```
Question - 10.py - C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/As...
File Edit Format Run Options Window Help
"""Write a python script to add two numbers:
25 (in octal) and 39 (in hexadecimal) and display the result
in binary format.
"""
octal_number = 0o31
hexadecimal_number = 0x27
result = bin(octal_number) + bin(hexadecimal_number)
print(result)
```

```
IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug  1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-3/Question - 10.py
0b110010b100111
>>>
```