

Python Type Conversion

Assignment Questions

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1.Convert an integer to a floating-point number.

Ans

```
integer_value = int(input("Enter an integer: "))
```

```
floating_point_value = float(integer_value)
print(f"The floating-point value is:
{floating_point_value}")
```

2.Convert a float to an integer.

Ans:

```
user_input =
float(input("Enter a
floating-point number: "))
```

```
converted_integer =
int(user_input)
```

```
print(f"The integer value is:
{converted_integer}")
```

3.Convert an integer to a string.

Ans:

```
user_input = int(input("Enter
an integer: "))
```

```
string_representation =
str(user_input)
```

```
print("The string  
representation of the integer  
is:", string_representation)
```

4.Convert a list to a
tuple.

Ans:

```
user_input =  
input("Enter the  
elements of the list  
separated by spaces: ")
```

```
user_list =  
user_input.split()
```

```
user_tuple =  
tuple(user_list)
```

```
print("The tuple is:",  
user_tuple)
```

5.Convert a tuple to a
list.

Ans:

```
user_input =  
input("Enter the  
elements of the tuple  
separated by commas: ")
```

```
input_tuple =  
tuple(user_input.split(",  
"))
```

```
output_list =  
list(input_tuple)
```

```
print("Tuple:",  
input_tuple)
```

```
print("List:",  
output_list)
```

6.Convert a decimal number to binary.

Ans:

```
decimal_number = int(input("Enter a  
decimal number: "))
```

```
binary_number =  
bin(decimal_number).replace("0b",  
"" )
```

```
print(f"The binary representation of  
{decimal_number} is  
{binary_number}.")
```

7.Convert a non-zero number to boolean.

Ans:

```
user_input = input("Enter a number: ")
```

```
number = float(user_input) if '.' in  
user_input else int(user_input)
```

```
boolean_value = bool(number)
```

```
print(f"The boolean value of {number}  
is {boolean_value}.".)
```

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