Project 1

Que: Change the string fine to dine

In [1]:
```
name = 'fine'
name
```

Out[1]: 'fine'

In [3]:
```
name[0:1]
```

Out[3]: 'f'

In [11]:
```
name[0] = 'd' # it give error because str in python is immutable
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[11], line 1
----> 1 name[0] = 'd'

TypeError: 'str' object does not support item assignment
```

In [13]:
```
name
```

Out[13]: 'fine'

In [15]:
```
name[1:] # it give index from 1 to till end
```

Out[15]: 'ine'

In [17]:
```
name[0:] # it take undex from 0to till end
```

Out[17]: 'fine'

In [19]:
```
name[1:]
```

Out[19]: 'ine'

In [21]:
```
'd' + name[1:] # we add d in ine (replace f to d and create new world dine
```

Out[21]: 'dine'

Que 2: change the string nit to mit

In [23]:
```
str = 'nit'
str
```

Out[23]: 'nit'

In [25]:
```
str[1:]
```

Out[25]: 'it'

In [27]:
```
'm' + str[1:]
```

Out[27]: 'mit'

Logical operator (And||or)

In [47]:
```
a = 8
b = 12
a
```

Out[47]: 8

In [49]:
```
b
```

Out[49]: 12

In [51]:
```
a < 8 and b < 5
```

Out[51]: False

In [45]:
```
a < 8 and b > 2
```

Out[45]: True

Arithmetic operator

In [71]:
```
x1 ,y1 = 12 , 6
x1
```

Out[71]: 12

In [73]:
```
y1
```

Out[73]: 6

x1 + y1

In [77]:
```
x1 - y1
```

Out[77]: 6

In [79]:
```
x1 * y1
```

Out[79]: 72

In [81]:
```
x1 / y1
```

Out[81]: 2.0

In [83]:
```
x1 // y1
```

Out[83]: 2

In [85]:
```
x1 % y1
```

Out[85]: 0

In [87]:
```
x1 ** y1
```

Out[87]: 2985984

Assignment Operator

In [89]:
```
x = 3
x
```

Out[89]: 3

In [95]:
```
x = x + 2 # when we want to incerement by 2
x
```

Out[95]: 9

In [97]:
```
x = x + 3
x
```

Out[97]: 12

In [101…
```
x += 2
x
```

Out[101… 16

In [103…
```
x *= 2
x
```

Out[103… 32

In [105…
```
x -= 2
x
```

Out[105… 30

In [107…
```
x /=2
x
```

Out[107… 15.0

In [109…
```
x //=2
x
```

Out[109… 7.0

unary operator : only (-) is used. it alwys indicate as a negative value.

In [111…
```
n = 7
n
```

Out[111… 7

In [113…
```
n = -(n)
n
```

Out[113… -7

Relational Operator

In [ ]:
```
a = 10
b = 15
```

In [115…
```
a
```

Out[115… 8

In [117…
```
b
```

Out[117… 12

In [119…
```
a < b
```

Out[119… True

In [121…
```
a > b
```

Out[121… False

In [123…
```
a == b
```

Out[123… False

In [125…
```
a>=b
```

Out[125… False

In [127…
```
a<=b
```

Out[127… True

In [129…
```
a !=b
```

Out[129… True