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```
#arithmetic operations
a=5
b=3
print("addition:",a+b)
print("subtraction:",a-b)
print("multiplication:",a*b)
print("division:",a/b)
print("floor division:",a//b)
print("modulus:",a%b)
print("exponentiation:",a**b)
```

```
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Python 3.12.0 (tags/v3.12.0:0fb18b0, Oct 2 2023, 13:03:39) [MSC v.1935 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

= RESTART: C:/Users/nandh/AppData/Local/Programs/Python/Python312/arthmetic.py
addition: 8
subtraction: 2
multiplication: 15
division: 1.666666666666667
floor division: 1
modulus: 2
exponentiation: 125

>>>
```

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```
#string manipulations
full_name="Monvitha"+""+"Sai" #concatenation
first_letter=full_name[0] #indexing
substring=full_name[1:4] #slicing
#string formatting
age=18
formatted_string=f"My name is [full_name] and I am (age) years old"
print(full_name)
print(first_letter)
print(substring)
print(formatted_string)
```

IDLE Shell 3.12.0 Sile Edit Shell Debug Options Window Help Python 3.12.0 (tags/v3.12.0:0fb18b0, Oct 2 2023, 13:03:39) [MSC v.1935 64 bit (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information. = RESTART: C:/Users/nandh/AppData/Local/Programs/Python/Python312/String manipulation.py MonvithaSai M onv My name is MonvithaSai and I am 18 years old

```
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```

#conditional statements

```
#if
if 4>3:
    print("true statement")
#if else
if 3>2:
    print("3 is greater")
else:
    print("2 is greater")
#nested if else
a=10
b=5
c = 20
if a>b:
    if a>c:
        print ("A is big:",a)
    else:
        print("c is big:",c)
else:
    if b>c:
        print("B is big:",b)
    else:
        print("C is big:",c)
#if-elif
a = 10
b=5
c = 11
if a>b and a>c:
    print ("A is big:",a)
elif b>a and b>c:
    print ("B is big:",b)
else:
    print("C is big:",c)
```

```
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Python 3.12.0 (tags/v3.12.0:0fb18b0, Oct 2 2023, 13:03:39) [MSC v.1935 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>

= RESTART: C:/Users/nandh/AppData/Local/Programs/Python/Python312/conditional.py
true statement
3 is greater
c is big: 20
C is big: 11
```

```
#creating a list with name 'a'
a=[1,2,67,65]
#add
a.append(1222)
#remove
a.remove(65)
#modifying an element
a[2]=366
#inserting an element
a.insert(3, "python")
print ("updated list", a)
#creating a dictionary with name my dict
my_dict=(100:"abc",200:"def",300:"ghi")
#adding
my dict[400]="jkl"
#modifying
my_dict[100]="mno"
#removing
my dict[100]
print ("updated dictionary: ", my dict)
#creating a tuple with name my tuple
my tuple=(1,2,3,4)
#adding
new element=5
updated_tuple=my_tuple+(new_element,)
#removing
updated tuple=my tuple[:1]+my tuple[2:]
#modifying
modified element=6
updated tuple=my tuple[:2]+(modified element,)+my tuple[3:]
print(updated tuple)
```

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```
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Python 3.12.0 (tags/v3.12.0:0fb18b0, Oct 2 2023, 13:03:39) [MSC v.1935 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

= RESTART: C:/Users/nandh/AppData/Local/Programs/Python/Python312/MonvithaSai.py
updated list [1, 2, 366, 'python', 1222]
updated dictionary: {100: 'mno', 200: 'def', 300: 'ghi', 400: 'jkl'}

4
```