Q1

100%

- [x] **Python** supports **7** arithmetic operators.
- [x] An exponent operator is represented by ** in **Python**.
- [ ] If the result of a division of two numbers is a floating point number , then it is rounded off to the nearest number.This is called **Modulus division**.
- [ ] The result of the division is not considered, but the remainder is considered, it is known as **Floor Division**.
- [x] // is called as Floor division operator.

Q2

Addexample1.py

```python
#Arithmetic Operators are +, -, *, /, **, %, //
num1 = int(input("num1: "))
num2 = int(input("num2: "))

# print num1+num2
print(num1,"+",num2,"=",num1+num2)
# print num1-num2
print(num1,"-",num2,"=",num1-num2)
# print num1*num2
print(num1,"*",num2,"=",num1*num2)
# print num1/num2
print(num1,"/",num2,"=",num1/num2)
# print num1**num2
print(num1,"**",num2,"=",num1**num2)
# print num1%num2
print(num1,"%",num2,"=",num1%num2)
# print num1//num2
print(num1,"//",num2,"=",num1//num2)

```

Q3

Arithexample2.py

```
num1 = int(input ("num1: "))
num2 = int(input ("num2: "))

# Print the addition of num1 and num2
print("Addition of {0} and {1} = {2}".format(num1,num2,num1+num2))
# Print the subtraction of num1 and num2
print("Subtraction of {0} and {1} = {2}".format(num1,num2,num1-num2))
# Print the multiplication of num1 and num2
print("Multiplication of {0} and {1} = {2}".format(num1,num2,num1*num2))
# Print the division of num1 and num2
print("Division of {0} and {1} = {2}".format(num1,num2,num1/num2))

```

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Q4

Arithexample3.py

```
num1 = int(input("num1: "))
num2 = int(input("num2: "))

# Print the exponenet of num1 to the power of num2
print("Exponent of {0} with {1} = {2}".format(num1,num2,num1**num2))
# Print the modulous function of num1 and num2
print("Modulus of {0} and {1} = {2}".format(num1,num2,num1%num2))
# Print the floor division function of num1 and num2
print("Floor Division of {0} and {1} = {2}".format(num1,num2,num1//num2))
```

Q5

Arithexample4.py

```
n1=int(input("num1: "))
n2=int(input("num2: "))
print("Exponent of {0} with {1} = {2}".format(n1,n2,n1**n2))
print("Modulus of {0} and {1} = {2}".format(n1,n2,n1%n2))
print("Floor Division of {0} and {1} = {2}".format(n1,n2,n1//n2))
```

Q6

Divmod.py

```python
#Program to illustrate divmod() function
# Input num1 with message "Enter number-1: "
num1=int(input("num1: "))
num2=int(input("num2: "))
# Input num2 with message "Enter number-2: "
# use divmod() and store results in 2 variables x, and y
ans=divmod(num1,num2)
print(num1, '//', num2, '=', ans[0]) # replace variables in () and print the results
print(num1, '%', num2, '=', ans[1])
```

Q1

Compexample1.py

```python
num1 = int(input("num1: "))
num2 = int(input("num2: "))

# Print Is num1 greater than num2.
print("Is {0} greater than {1} = {2}".format(num1,num2,num1>num2))
# Print Is num1 less than num2.
print("Is {0} less than {1} = {2}".format(num1,num2,num1<num2))
# Print Is num1 equal to num2.
print("Is {0} equal to {1} = {2}".format(num1,num2,num1==num2))
# Print Is num1 not equal to num2.
print("Is {0} not equal to {1} = {2}".format(num1,num2,num1!=num2))
# Print Is num1 less than or equal to num2.
print("Is {0} less than or equal to {1} = {2}".format(num1,num2,num1<=num2 ))
# Print Is num1 greater than or equal to num2.
print("Is {0} greater than or equal to {1} = {2}".format(num1,num2,num1>=num2))

```

Q2

Compexample2.py

```python
# Comparision Operators >, <, ==, !=, >=, <= on numbers
num1=int(input("num1: "))
num2=int(input("num2: "))

print("Is",num1,"greater than",num2,"=",num1>num2)
print("Is",num1,"less than",num2,"=",num1<num2)
print("Is",num1,"equal to",num2,"=",num1==num2)
print("Is",num1,"not equal to",num2,"=",num1!=num2)
print("Is",num1,"greater than or equal to",num2,"=",num1>=num2
print("Is",num1,"less than or equal to",num2,"=",num1<=num2)
```

Q3

Compexample5.py

```
# write your code here
str1=str(input("str1: "))
str2=str(input("str2: "))

print("Is",str1,"greater than",str2,"=",str1>str2)
print("Is",str1,"less than",str2,"=",str1<str2)
print("Is",str1,"equal to",str2,"=",str1==str2)
print("Is",str1,"not equal to",str2,"=",str1!=str2)
print("Is",str1,"greater than or equal to",str2,"=",str1>=str2)
print("Is",str1,"less than or equal to",str2,"=",str1<=str2)

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stops

Q4

Compexample4.py

```
str1 = input("str1: ")
str2 = input("str2: ")
# Print str1
# Print str2
# Print Is str1 greater than str2
print("Is",str1,"greater than",str2,"=",str1>str2)
# Print Is str1 less than str2
print("Is",str1,"less than",str2,"=",str1<str2)
# Print Is str1 is equal to str2
print("Is",str1,"equal to",str2,"=",str1==str2)
# Print Is str1 not equal to str2
print("Is",str1,"not equal to",str2,"=",str1!=str2)
# Print Is str1 greater than or equal to str2
print("Is",str1,"greater than or equal to",str2,"=",str1>=str2)
# Print Is str1 less than or equal to str2
print("Is",str1,"less than or equal to",str2,"=",str1<=str2)
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