

Q1

100%



☒ Python supports 7 arithmetic operators.

☒ 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**.

☒ // is called as Floor division operator.

Q2



Addexample1.py

```
1 #Arithmetic Operators are +, -, *, /, **, %, //
2 num1 = int(input("num1: "))
3 num2 = int(input("num2: "))
4
5 # print num1+num2
6 print(num1,"+",num2,"=",num1+num2)
7 # print num1-num2
8 print(num1,"-",num2,"=",num1-num2)
9 # print num1*num2
10 print(num1,"*",num2,"=",num1*num2)
11 # print num1/num2
12 print(num1,"/",num2,"=",num1/num2)
13 # print num1**num2
14 print(num1,"**",num2,"=",num1**num2)
15 # print num1%num2
16 print(num1,"%",num2,"=",num1%num2)
17 # print num1//num2
18 print(num1,"//",num2,"=",num1//num2)
19
```

Q3



Arithexample2.py

```
1 num1 = int(input("num1: "))
2 num2 = int(input("num2: "))
3
4 # Print the addition of num1 and num2
5 print("Addition of {0} and {1} = {2}".format(num1,num2,num1+num2))
6 # Print the subtraction of num1 and num2
7 print("Subtraction of {0} and {1} = {2}".format(num1,num2,num1-num2))
8 # Print the multiplication of num1 and num2
9 print("Multiplication of {0} and {1} = {2}".format(num1,num2,num1*num2))
10 # Print the division of num1 and num2
11 print("Division of {0} and {1} = {2}".format(num1,num2,num1/num2))
12
```

Successfully saved

Q4



Arithexample3.py

```
1 num1 = int(input("num1: "))
2 num2 = int(input("num2: "))
3
4 # Print the exponent of num1 to the power of num2
5 print("Exponent of {0} with {1} = {2}".format(num1,num2,num1**num2))
6 # Print the modulus function of num1 and num2
7 print("Modulus of {0} and {1} = {2}".format(num1,num2,num1%num2))
8 # Print the floor division function of num1 and num2
9 print("Floor Division of {0} and {1} = {2}".format(num1,num2,num1//num2))
```

Q5



Arithexample4.py

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

Q6

Divmod.py

```

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

```

Q1

Compexample1.py

```

1 num1 = int(input("num1: "))
2 num2 = int(input("num2: "))
3
4 # Print Is num1 greater than num2.
5 print("Is {0} greater than {1} = {2}".format(num1,num2,num1>num2))
6 # Print Is num1 less than num2.
7 print("Is {0} less than {1} = {2}".format(num1,num2,num1<num2))
8 # Print Is num1 equal to num2.
9 print("Is {0} equal to {1} = {2}".format(num1,num2,num1==num2))
10 # Print Is num1 not equal to num2.
11 print("Is {0} not equal to {1} = {2}".format(num1,num2,num1!=num2))
12 # Print Is num1 less than or equal to num2.
13 print("Is {0} less than or equal to {1} = {2}".format(num1,num2,num1<=num2 ))
14 # Print Is num1 greater than or equal to num2.
15 print("Is {0} greater than or equal to {1} = {2}".format(num1,num2,num1>=num2))
16

```

Q2

Compexample2.py

```

1 # Comparision Operators >, <, ==, !=, >=, <= on numbers
2 num1=int(input("num1: "))
3 num2=int(input("num2: "))
4
5 print("Is",num1,"greater than",num2,"=",num1>num2)
6 print("Is",num1,"less than",num2,"=",num1<num2)
7 print("Is",num1,"equal to",num2,"=",num1==num2)
8 print("Is",num1,"not equal to",num2,"=",num1!=num2)
9 print("Is",num1,"greater than or equal to",num2,"=",num1>=num2)
10 print("Is",num1,"less than or equal to",num2,"=",num1<=num2)

```

Q3



Compexample5.py

same

stops

```

1  # write your code here
2  str1=str(input("str1: "))
3  str2=str(input("str2: "))
4
5  print("Is",str1,"greater than",str2,"=",str1>str2)
6  print("Is",str1,"less than",str2,"=",str1<str2)
7  print("Is",str1,"equal to",str2,"=",str1==str2)
8  print("Is",str1,"not equal to",str2,"=",str1!=str2)
9  print("Is",str1,"greater than or equal to",str2,"=",str1>=str2)
10 print("Is",str1,"less than or equal to",str2,"=",str1<=str2)
11

```

Q4



Compexample4.py

the

```

1  str1 = input("str1: ")
2  str2 = input("str2: ")
3  # Print str1
4  # Print str2
5  # Print Is str1 greater than str2
6  print("Is",str1,"greater than",str2,"=",str1>str2)
7  # Print Is str1 less than str2
8  print("Is",str1,"less than",str2,"=",str1<str2)
9  # Print Is str1 is equal to str2
10 print("Is",str1,"equal to",str2,"=",str1==str2)
11 # Print Is str1 not equal to str2
12 print("Is",str1,"not equal to",str2,"=",str1!=str2)
13 # Print Is str1 greater than or equal to str2
14 print("Is",str1,"greater than or equal to",str2,"=",str1>=str2)
15 # Print Is str1 less than or equal to str2
16 print("Is",str1,"less than or equal to",str2,"=",str1<=str2)

```