Worksheet 1.2

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Branch: CSE - AIML **Section/Group: 21AML - 9 - A**
Semester: 3rd
Subject Name: Python for Machine Learning **Subject Code 21CSH-238**

Aim/Overview of the practical:

Write a Program which includes all python operators.

Code:

```
a = int(input("Enter the first number: "))
b = int(input("Enter the second number: "))
print()
print("****** Operator Menu ******")
print('''
    1. Add
    2. Subtract.
    3. Normal Division
    4. Floor Division
    5. Modulo
    6. Multiplication
    7. Comparison
    8. Bitwise AND
    9. Bitwise OR
```

```
    10. Bitwise NOT
    11. Bitwise XOR
    Press -1 for exit
''')
print()

choice = 0

while(choice != -1):
    print()
    choice = int(input("Enter your Choice: "))
    if(choice == 1):
        print(f"Addition of these numbers is: {a + b}")
    elif(choice == 2):
        print(f"Subtraction of these numbers is: {a - b}")
    elif(choice == 3):
        print(f"Normal Division of these numbers is: {a / b}")
    elif(choice == 4):
        print(f"Floor Division of these numbers is: {a // b}")
    elif(choice == 5):
        print(f"Modulo of these numbers is: {a % b}")
    elif(choice == 6):
        print(f"Multiplication of these numbers is: {a * b}")
```

```
elif(choice == 7):
    if(a > b):
        print("Number 1 is greater")
    elif (a < b):
        print("Number 2 is greater")
    else:
        print("Both numbers are equal")
elif(choice == 8):
    print(f"Bitwise And of these numbers: {a&b}")
elif(choice == 9):
    print(f"Bitwise And of these numbers: {a|b}")
elif(choice == 10):
    print(f"Bitwise And of first numbers: {~a}")
    print(f"Bitwise And of second numbers: {~b}")
elif(choice == 11):
    print(f"Bitwise And of these numbers: {a^b}")
```

Output:

```
Garv Khurana@LAPTOP-ANP8Q125 MINGW64 /d/Char
$ python -u "d:\Chandigarh University\Coding
Enter the first number: 10
Enter the second number: 5

****** Operator Menu ******

    1. Add
    2. Subtract.
    3. Normal Division
    4. Floor Division
    5. Modulo
    6. Multiplication
    7. Comparison
    8. Bitwise AND
    9. Bitwise OR
    10. Bitwise NOT
    11. Bitwise XOR

    Press -1 for exit



Enter your Choice: 1
Addition of these numbers is: 15

Enter your Choice: 2
Subtraction of these numbers is: 5

Enter your Choice: 3
Normal Division of these numbers is: 2.0

Enter your Choice: 4
Floor Division of these numbers is: 2

Enter your Choice: 5
Modulo of these numbers is: 0

Enter your Choice: 6
Multiplication of these numbers is: 50

Enter your Choice: 7
Number 1 is greater

Enter your Choice: 8
Bitwise And of these numbers: 0

Enter your Choice: 9
Bitwise And of these numbers: 15

Enter your Choice: 10
Bitwise And of first numbers: -11
Bitwise And of second numbers: -6

Enter your Choice: 11
Bitwise And of these numbers: 15

Enter your Choice: -1
```

Learning Outcomes:

1. How to Code in Python
2. How to use Python operators in code.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			