Cutput:

Enter fost value 150

Enter second value: 50

Addlion: 200.00

Subtraction: 100.00

Hultpleation: 4500

Dhiston: 3

Dale: 23-01-2015

Task 1: Running Python Script and various expressions in an Interactive interpreter.

(a) Perform Basic Hathematical Computations

Afm: To write a Python program that aucht two numerical Infuts and purform addition, suffraction, multiplication, and division operations.

Algorithm

1. Start the program

2. Accept too numerical Enfuts from the user.

s. Pufom:

- Addffon

- Subtraction

- Multipleation

- Davision lif second number 2s not zero)

4. Display the result.

5. and the perform.

Program

num : ; fleat (Enput ("Enter first value:"))

num 2 - gloat (higher ("rocks second value : "))

print ("Addlition: ", num + + num 2)

print ("Subfraction:", num 1 - num 2)

print ("Kustiplication:", nums "nums)

print (" Division!", num 1 / num 2)

Result: The phogram succenfully performed all a Atheneth operations on the given infacts and displayed the results.

(b) Evaluate Relational Expressions Output: APM: To develop a Python program that compares Enter first score: 55 Livo numeric values using relational operations and Enter second score: 70 displays the result of each comparison. asb: Fouse Algorthm acb: True 1. Start the program a==b: false 2. Accept two numbers from the uses. al=b . The 3. Apply the following relational operators: as=b: False. - Greater than (>) - Len shan (1) - Equal to (==) - Not equal to (!=) - Greater than or equal to (>=) - hers than or equal to (<=) 4. Display the results 5. End the program. Programm a= float (Infut ("Ender fest score:")) b = float (Infact (" Engel second score:")) prant ("a>b!", a>b) pant ("a <bi, geb) print (" a== b), a== b) prent ("a! = 6", a! = 6) print ("a>=b:", a>=b) Result: The program correctly evaluated all the helational expressions between the two glan Enperts.

output: () Check logical conditions Across Muchible Inputs levels marks for Test of: Alm: To create a Python program that uses logical Cinte marks for Test 2: Operators (and, or, not) to evaluate conclitions across Ender marks for Test 3: Shree test scores. A Lgorston Passed all hists: 1. Start the program Passed at least one test: 2. Accept three test scores from the user. 3. Use loggial operators to evaluate: Failed all stests: - If the landidate passed all test (and) - of the landledate pursual at least one dist los) - g the landfelate fulled are tests (not) 4. Display the result. 5. and the program. Program test 1 = 9nt (Infect ("Enler marks for Test 1:")) dist 2: Int (Infact ("Eake mails for Test2:")) E. End the program. test 3: " " Und (Input (" Enter maios for Test 3: ")) print ("Passed all tys:", tests > to and lest 2 > 40 and test 3 >40) print ("Paned at least one left:", test 1> 40 or test 2; VEL TECH - CSE or test 3 > 40) print ("Passed at frield all testing that 1) 4 BRL (Sa 4 b), a 4 6) Result. The program effectively evaluated Logstel Expressions and correctly educatified pend (as Et. as prostfail conditions based on test son tes.