REPORT WRITING!!

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Program -1

a=int(input())

b=int(input())

print("Addition:", a+b )

print("Subtraction:", a-b)

print("Multiplication:", a\*b)

print("Division:", a/b)

print("Modulus:", a%b)

print("Exponentiation:", a\*\*b)

print("Floor Division:", a//b)

Output:-

10

3

Addition: 13

Subtraction: 7

Multiplication: 30

Division: 3.3333333333333335

Modulus: 1

Exponentiation: 1000

Floor Division: 3

Explaination :- This program is done by using arithmetic operators like +,-,\*, / , %,\*\*,// and taken the two values of a and b and printed with respected arithmetic operators.

Program-2

a=int(input("enter first number:"))

b=int(input("enter second number:"))

if a>b:

print("first number is greater than second number")

elif a==b:

print("first number is equal to second number")

elif a<=b:

print("first number is less than or equal to the second")

else:

print("do nothing")

0utput:- first number: 23

enter second number: 12

first number is greater than second number

Explaination:- This program is done by using comparison symbols(<,>,=) &

used if - elif- else condition statements and this program helps you find greater and lesser numbers.

Program-3

a=True

b=False

c=True

print(a and b)

print(b and a)

print(a and c)

print(b and c)

print(a or b)

print(b or a)

print(a or c)

print(b or c)

print(not a)

print(not b)

print(not c)

Output:- False

False

True

False

True

True

True

True

False

True

False

Explaination:- This program used logic gates AND,OR AND NOT.

AND – when two values are true then print true or print false

OR- when anyone of the value is true then it prints true

Not- not is its compliments and has only one input

Program-04

input("enter the string ")

print(len(a))

print(a[0],a[-1])

print(a[::-1])

print(a.upper())

print(a.lower())

output:- enter the string Bhumika Ravi

12

B i

ivaR akimuhB

BHUMIKA Renter your name= Bhumi

enter your age= 18

Hello Bhumi you are 18 years old

AVI

bhumika ravi

Explaination :- string program ,we should find the length of string and we uses length function because it also need to count spaces. We should use the index position to find the first and last letter in the string and To convert the word int capital letter use upper(), to convert in small letter use lower().

Program-5

name=input("enter your name=")

age=int(input("enter your age="))

print("Hello",name,"you are",age,"years old")

Output:- enter your name= Bhumi

enter your age= 18

Hello Bhumi you are 18 years old

Explaination:- It is a simple program. We will take the name from user and then age . add the variable name in better where ("Hello",name,(variable name )"you are",age,"years old").its very easy to execute.

Program-6

r=input("Write a sentence:")

s=input("Enter the word you want search for:")

print(r.index(s))

Output:- Write a sentence: i like ice-cream!!

Enter the word you want search for: like

2

Explaination:- In this program we have to find the position of the index I used print(r.index(s)) this print statements. We have to use if-else statements but the condition doesn’t lies the other will

Program-7

a=int(input("enter the number 1:"))

b=int(input("enter the number 2:"))

c=int(input("enter the number 3:"))

d=int(input("enter the number 4:"))

e=int(input("enter the number 5:"))

f=(a,b,c,d)

print([f])

print(sum(f))

print(max(f))

print(min(f))

output:- enter the number 1: 3

enter the number 2: 7

enter the number 3: 8

enter the number 4: 9

enter the number 5: 2

[(3, 7, 8, 9)]

27

9

3

Explaintion:- This program is done by using sum() and should find the largest and smallest values so I used max() and min() functions.

Program-8

fruits=['apple','mango','grape','orange','watermelon']

print(fruits)

fruits.append('pineapple')

print(fruits)

fruits.remove('grape')

print(fruits)

output:- ['apple', 'mango', 'grape', 'orange', 'watermelon']

['apple', 'mango', 'grape', 'orange', 'watermelon', 'pineapple']

['apple', 'mango', 'orange', 'watermelon', 'pineapple']

Explaination:- List manipulation. To add any new item to list we should use append() function but this will only add the elements at the last. To remove the elements we should use pop() function and assign it with the index then simply print the updated list by giving print statement

Program-9

A = int(input("Enter the number 1: "))

B = int(input("Enter the number 2: "))

C = int(input("Enter the number 3: "))

D = int(input("Enter the number 4: "))

E = int(input("Enter the number 5: "))

f = [A, B, C, D, E]

f.sort()

print("Ascending Order of the list: ", f)

f.sort(reverse=True)

print("Descending Order of the list: ", f)

output:- Enter the number 1: 23

Enter the number 2: 6

Enter the number 3: 90

Enter the number 4: 76

Enter the number 5: 0

Ascending Order of the list: [0, 6, 23, 76, 90]

Descending Order of the list: [90, 76, 23, 6, 0]

Explaination:-This program is used for sorting list . first, we have take the input from user then sort accordingly in list . To convert in ascending order we have to use REVERSE= TRUE ,Descending REVERSE= FALSE

Program -10

Numbers=[1,2,3,4,5,6,7,8,9,10]

print(Numbers[:5])

print(Numbers[-5:])

print(Numbers[1:7])

output:-

[1, 2, 3, 4, 5]

[6, 7, 8, 9, 10]

[2, 3, 4, 5, 6, 7]

Explaination:- The format used here is [starting:ending] . This program we will be using indexes to locate the list

[:5]=it will be null and goes till 4th element.(n-1)

[-5:]=it starts from negative and goes till 4th (n-1).

[1:5]=it starts from 1st and goes till 4th elements

BOUNS QUESTION

students = []

for \_ in range(3):

name = input("Enter student name: ")

scores = [float(input(f"Enter score {i+1}: ")) for i in range(3)]

students.append([name, scores])

for student in students:

avg = sum(student[1]) / 3

print(student[0], "'s average score:", avg)

Output:- Enter student name: Anushree

Enter score 1: 76

Enter score 2: 90

Enter score 3: 89

Enter student name: Bhumi

Enter score 1: 99

Enter score 2: 90

Enter score 3: 98

Enter student name: catty

Enter score 1: 45

Enter score 2: 87

Enter score 3: 90

Anushree 's average score: 85.0

Bhumi 's average score: 95.66666666666667

catty 's average score: 74.0

Explaination:- In this program I used for loop . we have to give range 3 and get the names and scores from the user (i+1). for i in range then append function . To find the avg score we have add up the 3 subjects mark and divide by 3 and using print (student[0],”average score,avg) we will find the students name with the total percentage.

LINK:- <https://github.com/Bhumikaravi/python-pratice-question>

THANKYOU---------