REPORT WRITING!!

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Program -1

a**=**int(input('Enter the first number: '))

b**=**int(input('Enter the second number: '))

adding**=**a**+**b

substraction**=**a**-**b

multiplication**=**a**\***b

division**=**a**/**b

modulus**=**a**%b**

exponential**=**a**\*\***2

floor**=**a**//**b

print('adding: ', adding)

print('substraction: ', substraction)

print('multiplication: ', multiplication)

print('division: ', division)

print('modulus: ', modulus)

print('exponential: ', exponential)

print('floor:', floor)

Output:-

adding: 13

substraction: 7

multiplication: 30

division: 3.3333333333333335

modulus: 1

exponential: 100

floor: 3

Explanation :- 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')

**elif** a**==**b:

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

**elif** a**<=**b:

print('a is smaller than or equal to b')

0utput:-

first number: 23

enter second number: 12

first number is greater than second number

Explanation:- This program is done by using inequality symbols(=,>,<) & if, elif and else condition statements is used for finding the greatest and smallest number.

Program-3

a**=**input("enter a boolean value 1:-")**.**strip()**.**lower()**==**"true"

b**=**input("enter a boolean value 2:-")**.**strip()**.**lower()**==**"true"

c**=**input("enter a boolean value 3:-")**.**strip()**.**lower()**==**"true"

print(a **and** b **and** c)*#*

print(a **or** b **or** c)

print(**not** a)

print(**not** b)

print(**not** c)

Output:-

True

False

True

False

True

False

True

False

Explanation:- This program used logical operations like AND,OR and NOT– when two values are true then print true or if anyone of the value is true it prints true if OR is used and if any of the one value is true and other is false then it prints False if AND function is used and we are using strip to remove the white spaces and we are using lower to make the output of boolean smaller.

Program-04

a**=**input('Enter a word: ')

b**=**len(a)

c**=**a[0],a[**-**1]

d**=**a[::**-**1]

e**=**a**.**upper()

f**=**a**.**lower()

print(b)

print(c)

print(d)

print(e)

print(f)

output:-

7

('A', 'v')

vanihbA

ABHINAV

abhinav

Explanation :- In this program we will use len() 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 uppercase function and to convert in small letter use lowercase function.

Program-5

a**=**input('Enter a name: ')

b**=**int(input('Enter the age: '))

print('Hello',a,'you are',b,'years old')

Output:-

enter your name= Abhinav

enter your age= 17

Hello Abhinav you are 17 years old

Explanation:- In this program, we will take the name and age from the user add the variable name in places where it is asked to ("Hello",name,(variable name )"you are",age,"years old").its very easy to execute.

Program-6

a=input("Enter a sentence:")

b=input("Enter the word:")

c=a.find(b)

if c !=-1:

print(f"The word {b} found at {c} index position")

else:

print(f"The {b} word not found")

Output:-

Enter a sentence: Abhinav is great

Enter the word: great

The word great found at 11 index position

Explanation:- 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**=**[]

**for** i **in** range(1,6):

b**=**int(input('enter a number: '))

a**.**append(b)

c**=**sum(a)

d**=**max(a)

e**=**min(a)

print(a)

print(c)

print(d)

print(e)

output:-

[45, 46, 48, 49, 50]

238

50

45

Explanation:- In this program we will be using sum() to find the sum of allt he elements and for finding the largest and smallest values form the list we will be using 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']

Explanation:- List manipulation. To add any new item to list we will use append() function but this will only add the elements at the last. To remove the element from the list we will use remove() function.

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]

Explanation:- In this program we will be sorting list first, we have take the input from user then sort accordingly in list . To sort the list in ascending order we have to use REVERSE= TRUE ,Descending REVERSE= True

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]

Explanation:- In this program we are using slicing . This program we will be using indexes to locate the list [:5] it will be from the starting of the list and goes till 4th element. [-5:] it starts from the last element and goes till 4th (n-1). [1:5]=it starts from 1st and goes till 4th elements