REPORT WRITING!!

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Program -1

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

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

c=a+b

d=a-b

p=a\*b

q=a/b

m=a%b

e=a\*\*b

f=a//b

print("addition :",c)

print("subtraction :",d)

print("multiplication :",p)

print("division :",q)

print("modulus :",m)

print("exponention :",e)

print("floor division :",f)

Output:-

enter a number: 40

enter another number: 20

addition : 60

subtraction : 20

multiplication : 800

division : 2.0

modulus : 0

exponention : 109951162777600000000000000000000

floor division : 2

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: 24

enter second number: 20

first number is greater than second number

Explanation:- 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**=**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:-

enter a boolean value 1:- false

enter a boolean value 2:- false

enter a boolean value 3:- true

False

True

True

True

False

Explanation:- 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

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:-

8

('s', 'n')

namrepus

SUPERMAN

superman

Explanation :- 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

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

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

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

Output:-

enter your name= Aarush

enter your age= 18

Hello Aarush you are 18 years old

Explanation:- 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

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: I am ironman

Enter the word: ironman

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:-

enter a number: 35

enter a number: 36

enter a number: 37

enter a number: 38

enter a number: 39

[35, 36, 37, 38, 39]

185

39

35

Explanation:- 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']

Explanation:- 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: 75

Enter the number 2: 65

Enter the number 3: 15

Enter the number 4: 32

Enter the number 5: 78

Ascending Order of the list: [15, 32, 65, 75, 78]

Descending Order of the list: [78, 75, 65, 32, 15]

Explanation:-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[2:8])

output:-

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

Explanation:- 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