**Aim :** write a program for basic of python

1.installation steps of python.

2.use varaiables of python.

**3**.use of variable and operators in python

**4.**use print(),eval(),input(),type()&id().

**5**.different conditional statements in python (write ladder if else & nested if and else and simple if and else)

**6**.find the largest of three numbers.

**7**.The method to find electricity bill using conditional statement.

**8**.wite a program to calculate hotel bill as per following condition

Consists data like name ,id,address ,contact no,no of days ,services opted enter by user :

1.**Gold** => 10,000 Rs per night.

Services:

1.Spa =>5000 Rs per night.

2.launch =>300 Rs per day.

3.bar =>5,000 Rs per person.

4. massage => 2,000 per person.

**2 silver** => 7,000 Rs per person

Services:

1.lunch =>250 Rs per person

2.dinner =>350 Rs per person

3.laundry =>150 Rs per person

4.additional bed =>1250 Rs per person.

3. Bronze => 4,000 Rs per person

Services:

1.Breakfast =>100 Rs per person.

2. car parking => 50 Rs per person.

3. Hot water =>50 Rs per person.

Answere :

Code:

1.**Arithematic operator**

1.

**addition operator(+):-**

Used to add two numbers

**Input**

>> 3+5

**output**

8

2.

**Subtraction operator(-):-**

Used to subtract two numbers

**Input**

>>> 3-5

**output**

2

3.

**Multiplication operator(\*):-**

Used to multiplicate two numbers

**Input**

>>> 9\*2

**output**

18

4.

**Modules operator (%):-**

Used to remainder of two numbers

**Input**

>>> 5%2

**output**

1

5.

**Division operator(/) :-**

Used to divide two numbers and gives float value quotient

**Input**

>>> 9/2

**output**

4.5

6.

**Floor of real divison (//):-**

Used to divide two numbers and givesinteger value quotient

**Input**

>>> 9//2

**output**

4

7.

**Pre built print function print(“string ”):-**

**Input**

>>> print("hello harshit")

**output**

hello Harshit

**Commands**

**input**

>>> -9/2

**output**

-4.5

Description depends the sign of divisor if -ve so output will also have -ve sign

**input**

>>> -9//2

-5

**input**

>>> 9\*\*2

81

**input**

>>> 3\*\*2

9

**input**

>>> 3\*\*3

**output**

27

**input**

>>> -3.0%3

**output**

0.0

**input**

>>> -1%2

**Output**

1

**input**

>>> 1%-2

**output**

-1

**Type define function( type() ):-**

Description :

This pre built tells the type of variable and its type

**input**

>>> a=2

>>> a=3.4

>>> type(a)

**output**

<class 'float'>

**input**

>>> type(True)

**output**

<class 'bool'>

2. Logical operator :-

1. **And operator():-**

This operator check the Boolean value means true of false and check each and every constrains

**input**

>>> 4 and 5

**output**

5

**input**

>>> 4 and 5 and 7

**output**

7

**input**

>>> 0 and 4

**output**

0

2. or operator():-

This operator check the Boolean value means true of false and check each only one constrains

**input**

>>> 4 or 0

**output**

4

**input**

>>> 0 and 4

**output**

0

**input**

>>> 0 or 4

**output**

4

3. Not operator():-

This operator check the Boolean value means true and convert it opposite means false and vice versa

**input**

>>> not 4

**output**

False

**input**

>>> not 0

**output**

True

