

≡ Name: Nathisha.A

≡ Class: CSE(CS)

≡ Register Number: 727822TUCY040

≡ Ex.No: 3-Testing the truth values of the statements by logical operators

≡ Date: 12.01.2023

≡ Problem for practice: 1

≡ Write a program to check the truth values of the following.

≡ a)x is greater than 5

≡ b)x is not equal to 8

```
In[9]:= x = 3;  
        x > 5  
        x = 5;  
        x ≠ 8
```

```
Out[10]=  
False
```

```
Out[12]=  
True
```

≡ Problem for practice: 2

≡ Write a program to check the truth values of the following,"x is equal to 12 or x is less than 3"if

≡ a)x=12

```
In[18]:= x = 12;  
        (x == 12) || (x < 3)
```

```
Out[19]=  
True
```

≡ b)x=11

```
In[20]:= x = 11;  
In[21]:= (x == 12) || (x < 3)
```

```
Out[21]=  
False
```

≡ Problem for practice: 3

≡ Write a program to check the truth values of the following,"x is not equal to 8 and x is greater than 5"if

= a)x=3

```
In[24]:= x = 3;
          (x ≠ 8) && (x > 5)

Out[25]=
False
```

= b)x=10

```
In[27]:= x = 10;
          (x ≠ 8) && (x > 5)

Out[28]=
True
```

= Problem for practice: 4

Write a program to check the truth values of the following,
"Arjun's mark is not equal to 95 and he is topper" if

= a)mark=95,topper=1

```
In[8]:= mark = 95;
         topper = 1;
         (mark ≠ 95) && (topper == 1)

Out[10]=
False
```

= b)mark=100,topper=1

```
In[20]:= mark = 100;
         topper = 1;
         (mark ≠ 95) && (topper == 1)

Out[22]=
True
```

