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Problems For Practice

1)Write a program to check the truth values of the following

a)x is greater than 5

```
In[1]:= x = 9  
x > 5
```

```
Out[1]= 9
```

```
Out[2]= True
```

b)x is not equal to 8

```
In[3]:= x = 9  
x ≠ 8
```

```
Out[3]= 9
```

```
Out[4]= True
```

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[5]:= x = 12  
(x == 12) || (x < 3)
```

```
Out[5]= 12
```

```
Out[6]= True
```

b)x=11

```
In[7]:= x = 11  
(x == 12) || (x < 3)
```

```
Out[7]= 11
```

```
Out[8]= False
```

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[11]:= x = 3
         (x ≠ 8) && (x > 5)
```

```
Out[11]=
```

```
3
```

```
Out[12]=
```

```
False
```

```
b)x=10
```

```
In[13]:= x = 10
         (x ≠ 8) && (x > 5)
```

```
Out[13]=
```

```
10
```

```
Out[14]=
```

```
True
```

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[21]:= mark = 95
         topper = 1
         (mark ≠ 95) && (topper == 1)
```

```
Out[21]=
```

```
95
```

```
Out[22]=
```

```
1
```

```
Out[23]=
```

```
False
```

b)mark=100, topper=1

```
In[24]:= mark = 100
         topper = 1
         (mark ≠ 95) && (topper == 1)
```

```
Out[24]=
```

```
100
```

```
Out[25]=
```

```
1
```

```
Out[26]=
```

```
True
```