```
In [1]:
          1 # OPERATORS in PYTHON
          2 # Arithmatic (+,-,**,/,%)
          3 # Assighnment
          4 # Logical
          5 # Bitwise
          6 # Identity
In [2]:
            # ARITHMATIC
          2
          3
            add=1+2
            print(add)
        3
In [3]:
          1 expo=5**2
            print(expo)
        25
In [4]:
          1 div=20/4
          2 print(div)
        5.0
In [5]:
          1 floordiv=17/4
          2 print(floordiv)
        4.25
In [6]:
          1 floordiv=17//4
                               # It give value in roundfigure
          2 print(floordiv)
        4
In [7]:
            mod=7\%3
          2 print(mod) # here we are getting remainder=1
        1
In [8]:
          1 num=24+12*32/8.0
            print(num)
        72.0
In [9]:
          1 sq=12**2
          2 print(sq)
        144
```

```
In [10]:
           1 # ASSIGHNMENT
           2
           3 a=10
             print(a)
         10
In [11]:
           1 | z=10
           2 z+=2
           3 print(z) # z=z+2 means 10=10+2 means 12
         12
In [12]:
           1 z=10
           2 z-=2
           3 print(z) # z=z-2 means 10=10-2 means 8
         8
In [13]:
           1 z=10
           2 z*=2
           3 print(z) # z=z*2 means 10=10*2 means 20
         20
In [14]:
           1 z=10
           2 z/=2
           3 print(z) # z=z/2 means 10=10/2 means 5
         5.0
In [15]:
           1 z=10
           2 z%=2
           3 print(z) # z=z%2 means 10=10%2 means 0
         0
In [16]:
           1 # STRINGMULTIPLICATION
           2
           3 s="s"*5
           4 print(s)
         SSSSS
In [17]:
           1 s1="s "*5
           2 print(s1)
         s s s s s
```

```
1 stringjoin="Simran"+" "+"Pirjade"
In [18]:
           2 print(stringjoin)
         Simran Pirjade
In [19]:
          1 | 11=[1,3,5,7]
           2 12=[2,4,6,8]
           3 list=l1+l2
                               # Add two list
          4 print(list)
         [1, 3, 5, 7, 2, 4, 6, 8]
In [20]:
          1 print([5,6,7]*2) # List multiplication
         [5, 6, 7, 5, 6, 7]
In [21]:
          1 # LOGICAL
           2 #AND= if both the statememnts are TRUE then it returns TRUE
           3 #OR= if one of the statment is true then it returns TRUE
           4 #NOT= If both statments are false/it is reverse to AND operator
In [22]:
          1 z=10
           2 print(z>20 and z<20) #10>20 and 10<20
         False
In [23]:
           1 z=10
           2 print(z>5 and z<12) #10>5 and 10<12
         True
In [24]:
           1 z=5
           2 print(z>3 or z<4) #5>3 or 5<4
         True
In [25]:
          1 z=5
           2 print(not(z>3 and z<10)) #5>3 and 5<10 #print(not(AND))</pre>
         False
In [26]:
           1 z=5
           2 print(z>3 != z<10)</pre>
         True
```

```
In [27]:
            1
               # BITWISE
            2
            3
               print(6&3)
                                            # AND operator
          2
In [28]:
               print(0<mark>&</mark>1)
            1
            2
               print(1&1)
            3 print(1&0)
               print(0&0)
          0
          1
In [29]:
            1 print(33|3)
                                             # OR
          35
In [30]:
               print(6^3)
                                             # XOR
          5
In [31]:
               print(~3)
                                             # NOT
          -4
In [32]:
               print(~6)
          -7
In [33]:
               print(3<<2)</pre>
                                             # ZERO LEFT SHIFT
          12
In [34]:
               print(8>>2)
                                           # ZERO RIGHT SHIFT
          2
In [35]:
            1 print(13>>3)
          1
In [36]:
               # IDENTITY
            2
            3 # is and is not
```

```
1 a=["Hyundai","Kia"]
In [37]:
          2 b=["Hyundai","Kia"]
          3 c=a
          4 print(a==b) #It returns True because both variables have the same job
          5 print(a is c) #It returns True because c is the same object
         True
         True
In [38]:
          1 a=["Hyundai","Kia"]
          2 b=["Hyundai","Kia"]
          3 c=a
          4 print(a is not c) #'IS NOT is opposite to'
         False
In [39]:
          1 a=["Hyundai", "Kia"]
          2 b=["Hyundai","Kia"]
          3 c=a
          4 print(a is c)
         True
In [40]:
          1 #IS Not- Return false if the next variable is the same object
```

False