```
 1
 2      ==================Bitwise_Operator
   ================================
 3      1.Bitwise operators are used to perform bitwise
   operations on binary patterns.
 4      2.These operators work efficiently.
 5      3.All the binary operators are in-fix except for
   the not operator.
 6  ------------------------------------------------------
   ----------------------------
 7  -> Bitwise not operator: Returns one's complement of
   the number
 8
 9  a = 10 = 1010       # convert into Binary value
10  ~a = ~1010          #performing not Operation
11     = -(1010 + 1)    #taken one's complement
12     = -(1011)
13     = -11                # return Decimal  values
14
15
16   #userdifined program to calculate binary value
17
18
19  a=int(input("Enter a number to calculate binary value
   :"))
20  print(~a)
21
22
23  #project
24  print("==========welcome to bitwise calculator
   =========")
25  print("1.Bitwise And\n2.bitwise Or\n3.Bitwise Not")
26  ch=int(input("Enter your choice:"))
27  if ch==1:
28      a=int(input("Enter a number: "))
29      b= int(input("Enter a number: "))
30      print(a&b)
31  elif ch==2:
32      a = int(input("Enter a number: "))
33      b = int(input("Enter a number: "))
34      print(a|b)
35  elif ch==3:
36      a = int(input("Enter a number: "))
37      print(~a)
```

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38 else:
39     print("invalid input")
40
41
42
43
44
```