


```
In [4]: def mcp():
inp = "y"
while inp.lower() == "y":
    operation = input("Operation to be performed: ")
    n = int(input("Enter number of instances: "))
    if operation.upper() in ["AND", "OR", "NOR"]:
        m = int(input("Enter number of features: "))
    elif operation.upper() == "NOT":
        m = 1
    else:
        print("Error: Invalid operation!")
        continue
    X = np.random.randint(2, size=(n, m))
    print("\nInput table:\n", X)
    output = f(X, operation)
    print(f"\nOutput of {operation} operation is:\n{output}")
    inp = input("\nContinue y/n? ")
```

In [5]: mcp()

```
Operation to be performed: AND
Enter number of instances: 4
Enter number of features: 3
```

Input table:

```
[[1 1 1]
 [1 1 1]
 [0 1 0]
 [0 1 1]]
```

Output of AND operation is:

```
[[1]
 [1]
 [0]
 [0]]
```

Continue y/n? y

```
Operation to be performed: OR
Enter number of instances: 3
Enter number of features: 3
```

Input table:

```
[[0 1 1]
 [0 1 0]
 [0 0 1]]
```

Output of OR operation is:

```
[[1]
 [1]
 [1]]
```

Continue y/n? n

In []: