

⇒ PSEUDO CODE:-

```
isEgh(M[J][I], row, col, Visited[J][I])
{
```

return true if point lies on graph and is not visited

```
}
```

```
DES(M[J][I], row, col, visited[J][I])
{
```

row Num = { -1, -1, -1, 0, 0, 1, 1, 1 };

col Num = { -1, 0, -1, 1, 1, -1, 0, 1 };

visited [row] [col] = true;

```
for (int K=0; K<8; K++)
```

```
{ if (isSafe (M[J][I], row[K], col[K], visited[J][I])
```

```
DES (M, rowNum[K], colNum[K], visited[J][I]);
```

```
}
```

Count Islands (M [][])

```
{
    visited [][];
    count = 0;
    for (i=0; i < row; i++)
        for (j=0; j < col; j++)
        {
            if (M[i][j] == 1 && !visited[i][j])
            {
                DFS (M, i, j, visited);
                count++;
            }
        }
    return count;
}
```