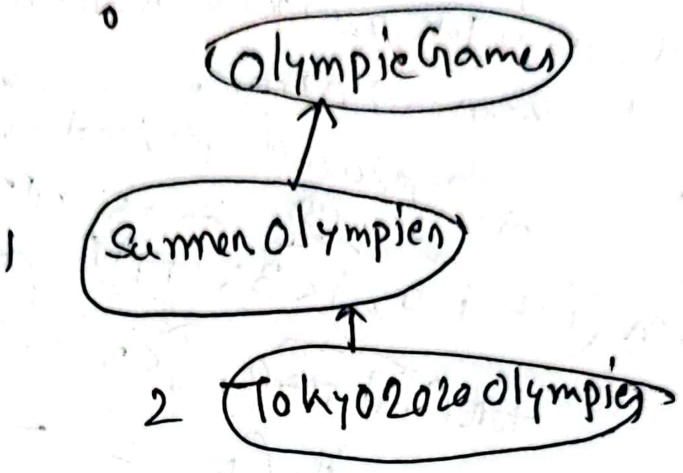
Sec:03
2030135Z.
Q2-3

(1)



NMO = 1
NMI = 1
DIT = 2
NMA = 2

$$\therefore SIX = \frac{NMO \times DIT}{NMO + NMI + NMA}$$

$$= \frac{1 \times 2}{1+1+2}$$

$$= \frac{2}{4} \times 100\%.$$

$$= \frac{1}{2} \times 100\%.$$

$$= 50\%.$$

NMO = Number of methods overwritten

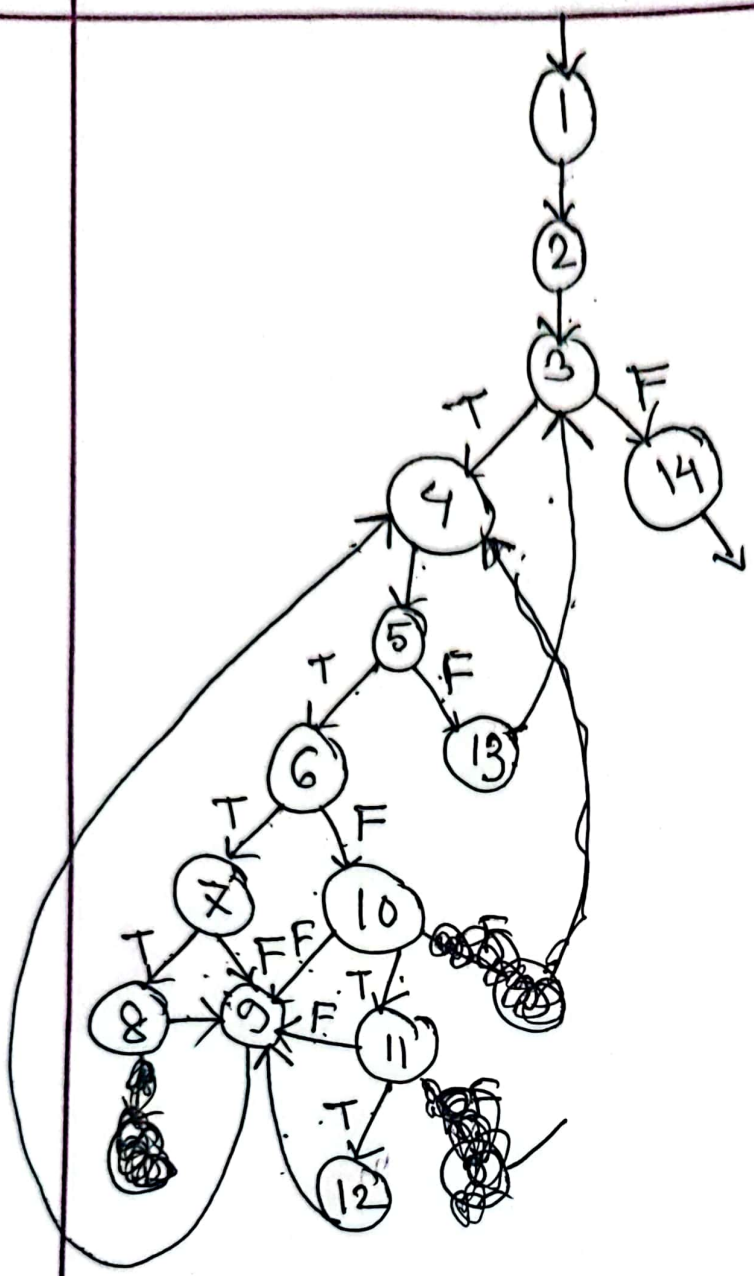
NMI = Number of inherited operation

DIT = depth of Inheritence

NMA = Number of operation added to the inheritence

(2)

```
Public void host city(){
    boolean isTokyo2020olympicsHosted = true;
    int year = 2020;
    boolean tokyo2020olympicsHostCityUndecided = false;
for (int i=0; i<3; i++){
    for(int j=0; j<3; j++){
        if (i== 2){
            if (j==2){
    tokyo2020olympicsHostedIn Japan = true;
        }}
    else if (i==1){
        if (j==1){
    tokyo2020olympicsHostCityUndecided = true;
        }
    }
}
}
```



(3)

Cyclomatic complexity = R+1

= 6+1 = 7

R → Region (block area)