**Dataflow Testing:**

**1.** read x, y;

**2.** if(x>y)

**3.** a = x+1

else

**4.** a = y-1

**5.** print a;

Use of variable

|  |  |  |
| --- | --- | --- |
| Variable | Defined at Node | Used at Node |
| x | 1 | 2, 3 |
| y | 1 | 2,4 |
| a | 3, 4 | 5 |

**Control flow Testing**

A

read x y

A=y-1

x>y

A=x+1

1

B

3 2

C D

444

**Branch Coverage**

|  |  |  |  |
| --- | --- | --- | --- |
| Case | Covered Branches | Path | Branch Coverage |
| Yes | 1, 2, 4 | A1-B2-D4 | 2 |
| No | 3,5 | A1-B3-C5 |  |

**Statement Coverage**

Statement Coverage= (Number of executed statement/Total number of statement)\*100

Statement coverage= (5/6)\*100= 83.3333

**Decision Coverage**

Decision Coverage:

(Number of decision outcome exercised/Total number of decision outcomes)\*100

Decision Coverage= ½\*100 (only Yes is exercised)

= 50%