Exercise: Statement coverage & Branch/Decision coverage:

1)
Read A
Read B
IF A+B > 10 THEN
  Print "A+B is Large"
ENDIF
If A > 5 THEN
  Print "A Large"
ENDIF
	a. Calculate statement coverage
	b. Calculate Branch/Decision coverage

2) READ X READ Y IF “X > Y” PRINT X is greater that Y ENDIF	a. How many tests are required to achieve 100% statement coverage? b. How many tests are required to achieve 100% Branch coverage?

3)
IF A > B THEN
  C = A – B
ELSE
  C = A + B
ENDIF
Read D
IF C = D
  Then Print “Error”
ENDIF
	a. How many tests are required to achieve 100% statement coverage?
	b. How many tests are required to achieve 100% Branch/Decision coverage?

4)
Example (int x)
{
  if (x < 10)
  print("x < 10")
 	
  else
  print("x >= 10")
}
	a. Calculate total number of statement coverage
	b. Calculate total number of Branch/Decision coverage

5) 1 READ A 2 READ B 3 C = A – 2 *B 4 IFC <0THEN 5 PRINT “C negative” 6 ENDIF	a. How many tests are required to achieve 100% statement coverage? b. How many tests are required to achieve 100% Branch/Decision coverage?

6) Test (int a=3) { if (a>4) a=a*3 print (a) }	a. Calculate statement coverage b. Calculate Branch/Decision coverage

7)
Read X
Read Y
IF X+Y > 100 THEN
Print "Large"
ENDIF
If X + Y<100 THEN
Print "Small"
ENDIF
	a. How many tests are required to achieve 100% statement coverage?
	b. How many tests are required to achieve 100% Branch/Decision coverage?

8)
Read A
Read B
If A > B then
x = 0
End if
	a. How many tests are required to achieve 100% statement coverage?
	b. How many tests are required to achieve 100% Branch/Decision coverage?

9)
Read X, Y
if X > Y then
print "X is Greater"
else
print Y is Greater
End
	a. How many tests are required to achieve 100% statement coverage?
	b. How many tests are required to achieve 100% Branch/Decision coverage?

10) Input a, b Let c = a + b If c < 10, print c Else, print 'Sorry'	a. How many tests are required to achieve 100% statement coverage? b. How many tests are required to achieve 100% Branch/Decision coverage?

11)
if(a=2)
print "execute this line";
else
print "executing else statement";
end if;
	a. Calculate total number of statement coverage
	b. Calculate total number of Branch/Decision coverage

12)
Read a
Read b
if a>b
print "a is largest"
else
if a==b
print "Both a and b are equivalent"
else
print "b is largest number"
end if
	a. How many tests are required to achieve 100% statement coverage?
	b. How many tests are required to achieve 100% Branch/Decision coverage?