**ASSIGNMENT FOR if else**

What would be the output of the following programs:

(a)

main( )

{

int a = 300, b, c ;

if ( a >= 400 ) b = 300 ;

c = 200 ; printf ( "\n%d %d", b, c ) ;

}

(b) main( )

{ int a = 500, b, c ;

if ( a >= 400 )

b = 300 ;

c = 200 ;

printf ( "\n%d %d", b, c ) ;

}

(c) main( )

{

int x = 10, y = 20 ;

if ( x == y ) ;

printf ( "\n%d %d", x, y ) ;

}

(d) main( )

{

int x = 3,

y = 5 ;

if ( x == 3 )

printf ( "\n%d", x ) ;

else ;

printf ( "\n%d", y ) ;

}

(e) main( )

{

int x = 3 ;

float y = 3.0 ;

if ( x == y )

printf ( "\nx and y are equal" ) ;

else

printf ( "\nx and y are not equal" ) ; }

(f) main( )

{

int x = 3, y, z ;

y = x = 10 ;

z = x < 10 ;

printf ( "\nx = %d y = %d z = %d", x, y, z ) ;

}

(g) main( )

{

int k = 35 ;

printf ( "\n%d %d %d", k == 35, k = 50, k > 40 ) ;

}

(h) main( )

{ int i = 65 ;

char j = ‘A’ ;

if ( i == j )

printf ( “C is WOW” ) ;

else

printf( "C is a headache" ) ;

}

(i) main( )

{

int a = 5, b, c ;

b = a = 15 ;

c = a < 15 ;

printf ( "\na = %d b = %d c = %d", a, b, c ) ;

}

(j) main( )

{

int x = 15 ;

printf ( "\n%d %d %d", x != 15, x = 20, x < 30 ) ;

}

[B] Point out the errors, if any, in the following programs:

(a) main( )

{ float a = 12.25, b = 12.52 ;

if ( a = b )

printf ( "\na and b are equal" ) ;

}

(b) main( )

{

int j = 10,

k = 12 ;

if ( k >= j )

{

{

k = j ;

j = k ;

}

}

}

(c) main( )

{

if ( 'X' < 'x' )

printf ( "\nascii value of X is smaller than that of x" ) ;

}

(d) main( )

{ int x = 10 ;

if ( x >= 2 )

then

printf ( "\n%d", x ) ;

}

(e) main( )

{ int x = 10 ;

if x >= 2

printf ( "\n%d", x ) ;

}

(f) main( )

{ int x = 10, y = 15 ;

if ( x % 2 = y % 3 )

printf ( "\nCarpathians" ) ;

}

(g) main( )

{

int x = 30 , y = 40 ;

if ( x == y )

printf( "x is equal to y" ) ;

elseif ( x > y )

printf( "x is greater than y" ) ;

elseif ( x < y )

printf( "x is less than y" ) ;

}

(h) main( )

{ int x = 10 ;

if ( x >= 2 ) then

printf ( "\n%d", x ) ;

}

(i) main( )

{

int a, b ;

scanf ( "%d %d",a, b ) ;

if ( a > b ) ;

printf ( "This is a game" ) ;

else

printf ( "You have to play it" ) ;

}

[C] What would be the output of the following programs:

(a) main( )

{

int i = 4, z = 12 ;

if ( i = 5 || z > 50 )

printf ( "\nDean of students affairs" ) ;

else

printf ( "\nDosa" ) ;

}

(b) main( )

{

int i = 4, z = 12 ;

if ( i = 5 && z > 5 )

printf ( "\nC Programming" ) ;

else printf ( "\nWish C was Easy !" ) ;

}

(c) main( )

{

int i = 4,

j = -1, k = 0, w, x, y, z ;

w = i || j || k ;

x = i && j && k ;

y = i || j && k ;

z = i && j || k ;

printf ( "\nw = %d x = %d y = %d z = %d", w, x, y, z ) ;

}

(d) main( )

{

int i = 4, j = -1, k = 0, y, z ;

y = i + 5 && j + 1 || k + 2 ;

z = i + 5 || j + 1 && k + 2 ;

printf ( "\ny = %d z = %d", y, z ) ;

}

(e) main( )

{

int i = -3, j = 3 ;

if ( !i + !j \* 1 )

printf ( "\nMassaro" ) ;

else

printf ( "\nBennarivo" ) ;

}

(f) main( )

{

int a = 40 ;

if ( a > 40 && a < 45 )

printf ( "a is greater than 40 and less than 45" ) ;

else printf ( "%d", a ) ;

}

(g) main( )

{

int p = 8, q = 20 ;

if ( p == 5 && q > 5 )

printf ( "\nWhy not C" ) ;

else

printf ( "\nDefinitely C !" ) ;

}

(h) main( )

{

int i = -1, j = 1, k ,l ;

k = i && j ; l = i || j ;

printf ( "%d %d", I, j ) ;

}

(i) main( )

{

int x = 20 , y = 40 , z = 45 ;

if ( x > y && x > z )

printf( "x is big" ) ;

else if ( y > x && y > z )

printf( "y is big" ) ;

else if ( z > x && z > y )

printf( "z is big" ) ;

}

(j) main( )

{

int i = -1, j = 1, k ,l ;

k = !i && j ; l = !i || j ;

printf ( "%d %d", i, j ) ;

}

(k) main( )

{

int j = 4, k ;

k = !5 && j ;

printf ( "\nk = %d", k ) ;

}

[D] Point out the errors, if any, in the following programs:

(a) /\* This program /\* is an example of /\* using Logical operators \*/

main( )

{

int i = 2, j = 5 ;

if ( i == 2 && j == 5 )

printf ( "\nSatisfied at last" ) ;

}

(b) main( )

{

int code, flag ;

if ( code == 1 & flag == 0 )

printf ( "\nThe eagle has landed" ) ;

}

(c) main( )

{

char spy = 'a', password = 'z' ;

if ( spy == 'a' or password == 'z' )

printf ( "\nAll the birds are safe in the nest" ) ;

}

(d) main( )

{

int i = 10, j = 20 ;

if ( i = 5 ) && if ( j = 10 )

printf ( "\nHave a nice day" ) ;

}

(a) main( )

{

int x = 10 , y = 20;

if ( x >= 2 and y <=50 )

printf ( "\n%d", x ) ;

}

(b) main( )

{ int a, b ;

if ( a == 1 & b == 0 )

printf ( "\nGod is Great" ) ;

}

(c) main( )

{ int x = 2;

if ( x == 2 && x != 0 ) ;

{

printf ( "\nHi" ) ;

printf( "\nHello" ) ;

}

else

printf( "Bye" ) ;

}

(d) main( )

{ int i = 10, j = 10 ;

if ( i && j == 10)

printf ( "\nHave a nice day" ) ;

}

[E] What would be the output of the following programs:

(a) main( )

{

int i = -4, j, num ;

j = ( num < 0 ? 0 : num \* num ) ;

printf ( "\n%d", j ) ;

}

(b) main( )

{ int k,

num = 30 ;

k = ( num > 5 ? ( num <= 10 ? 100 : 200 ) : 500 ) ;

printf ( "\n%d", num ) ;

}

(c) main( )

{

int j = 4 ; ( !j != 1 ? printf ( "\nWelcome") : printf ( "\nGood Bye") ) ;

}

[F] Point out the errors, if any, in the following programs:

(a) main( )

{

int tag = 0, code = 1 ;

if ( tag == 0 ) ( code > 1 ? printf ( "\nHello" ) ? printf ( "\nHi" ) ) ;

else printf ( "\nHello Hi !!" ) ;

}

(b) main( )

{

int ji = 65 ;

printf ( "\nji >= 65 ? %d : %c", ji ) ;

}

(c) main( )

{

int i = 10, j ; i >= 5 ? ( j = 10 ) : ( j = 15 ) ;

printf ( "\n%d %d", i, j ) ;

}

(d) main( )

{ int a = 5 , b = 6 ; ( a == b ? printf( "%d",a) ) ;

}

(e) main( )

{

int n = 9 ; ( n == 9 ? printf( "You are correct" ) ; : printf( "You are wrong" ) ;) ;

}

(f) main( )

{

int kk = 65 ,ll ;

ll = ( kk == 65 : printf ( "\n kk is equal to 65" ) : printf ( "\n kk is not equal to 65" ) ) ;

printf( "%d", ll ) ;

}

(g) main( )

{

int x = 10, y = 20 ;

x == 20 && y != 10 ? printf( "True" ) : printf( "False" ) ;

}

[F] Rewrite the following programs using conditional operators.

(a) main( )

{

int x, min, max ;

scanf ( "\n%d %d", &max, &x ) ;

if ( x > max ) max = x ;

else min = x ;

}

(b) main( )

{ int code ; scanf ( "%d", &code ) ;

if ( code > 1 )

printf ( "\nJerusalem" ) ;

else if ( code < 1 )

printf ( "\nEddie" ) ;

else printf ( "\nC Brain" ) ;

}

(c) main( )

{

float sal ;

printf ("Enter the salary" ) ;

scanf ( "%f", &sal ) ;

if ( sal < 40000 && sal > 25000 )

printf ( "Manager" ) ;

else if ( sal < 25000 && sal > 15000 )

printf ( "Accountant" ) ;

else printf ( "Clerk" ) ;

}