***ASSIGNMENT-3***

***QUESTION NO.:-3***

***ALGORITHM:-***

*Main( )*

Step 1: Initialize ‘x’ as 0.

Step 2: Read multiplier in ‘p’ and multiplicand in ‘q’

Step 3: a[i]←p

Step 4: b[i]←q

Step 5: Repeat step 4 to 5 while (p>1) do,

Step 6: i←i+1

Step 7: p←p/2

Step 8: q←q\*2

Step 9: a[i]←p

Step 10: b[i]←q

Step 11: j←load the starting index of for loop which is 0.

Step 12: Repeat step 13 to 15 while (j≤i) do,

Step 13: If (a[j]%2≠0) then go to step 14,

Step 14: x←x+b[j];

Step 15: j←j+1

Step 16: Display the multiplication value ‘x’

Step 17: END