Assignment - 1 Name - Saucabh J. Wogh PG-DAC, C-DAC, Mumbal (khasghal) * Wite algorithm or Howchast for the following peogeams. 1) check it the given number is EVEN or Odd step 1 - Start the peogram. Step 2 - Read the number " step 3 - it n'/02 = = 0 then the entered number is Step 4 - else the number to Step 5 - Display the out put Step 6 - Stop the execution et peogram Havehart for factorial of given (2) number. (start Read / JEWI! faut = 1 back baux slop + 8 2+1

Algorithm for to to find factoria, et given number using excutsion D Step 1 - . Start step 2 - Read numbers n step 3 - coul fautorial (n). step 4 - print fautorial & f step 5 - stop for function factorial (n) step 1 - It n== 1 then exturn I Step 2 - Else f= n & facturial (n-1) Step 3 - Return & 4) Swap variables without using third variables start) Read alb/ a=a+b Print arb Step

check whether the number it positive ar regative. Step 1 - Start
step 2 - Set n Step 1 step 3 - it 0>0 then number is pasitive rumble is regative steps - End./ stap check whether entered year is (6) leap jear is or non leap Step 1 - Start Step 3 - Set | Read 19

Step 3 - Set n:
Step 4 - it (nº/04==0|| nº/0400=0)

them entered year Stege- entered year is nour step-6 - Stop pro print 1-10 without using loops sug-j-slort Step 2 - paint (1); \$ 50-0h till \$0. siegn-steep

B) Dette java programs to prints the digits of given number Step 1 - Start Step 2 - Set a, b, c, d, n. step3 - Read n suffer step 3 - Read 17

Step 5 - d = 17/010

Have step 5 - d = 17/010 step6 - n= n/10 of or step 8 - Privat a, b, c, d stapg- End & Algorithm tree sum at digits et number Step 1 - Start Stop 2 - Read number Step3- number 10/0 stipt - bet Remaindle an Sum Stys - Divide the number steps-Repeat the step 2 to 4 while n>0.

Divite Algorithm or Howchart to fund Smallest at these numbers Step 2 - Start

Step 2 - Read a, b, c.

Step 3 - it (axb \$\$ axc) stip 4 - Its (bxa ff bxc)

b is smallest in case cet else step 5 - else i is smallest step6- End. Divine Algorithm or Howchart to burd factorials ob given numbers Algerithm

Step-1 - Start

Step-2 - Read n' Step3 - sterate loop from

I to that number

grep-4 - It nofoi ==0 then

print i

Step 5 - Stop/End, Detrout veing the arithmatic upersto Step 1 - Start Step 2 - Cerate a bunetion adel () in a main
which takes two arguments
are int
step 8 - Nove, in main, pead al bean use

Step-4- (all Arthal add () trunction treem main at bow an argument 5- Now In that we will inclease the every 0 1. e. Sum flow chart to Reveloed the given n, Erevessed = n, 0 last digit END 6 CD .0 box to bind Step 1 - Read 2 & 4 badierial for both numbers Step 8 - check that I'm number octy completely divide or net

Algorithm to trind LCM of two ness Step-1 - Read & initialience poth alh - Stole the common multiple cet both A & B in max Valiable Cheek whather the max Sty 3is divisible ky beth It max is divisible, they display man as 2000 Step-8. Else, the value of max is a increased & go to sty 3 Step-6-Algorithm for to check whether no. is parendrome as not Step-1 - Read no Step 2 - Hold the no, in temporary variable Revesse the no-Step 3 -Compare the temporary Stag 4 no with seversed no Iteg 5 - its both the nes are equal then point entered no Il palindeome numbre Else print enter no Step 6 -Vie not palindrome number

