

Assignment No. 1

Q. 1) Check whether given number is Even or Odd.

→ step 1 :- start

step 2 - Enter the ~~given~~ no.

step 3 - divide the no. by 2

step 4 - If it gives remainder as 0 then it is Even

step 5 - If remainder is other than 0 then it is Odd.

step 6 - Print the result.

step 7 - End.

Q. 2) Find the factorial of given number.

→ Step 1 - start

Step 2 - Enter the number.

Step 3 - initialize $i = 1$ & $fact = 1$

Step 4 - if $i \leq n$ go to ~~set~~ step 4 otherwise goto step 7

Step 5 - calculate $fact = fact * i$

Step 6 - increment $i++$ and go to step 4

Step 7 - Print fact

Step 8 - stop

Q.4) Swap two numbers without using third variable approach.

→ ~~start~~ 1- start

step 2 - Enter the two numbers

step 3 - Initialize with two variables i.e. a & b

step 4 - Add two numbers and save in 1st variable i.e. $a = a + b$

step 5 - ~~and~~ then 2nd variable = 1st variable - 2nd variable

i.e. $b = a - b$

step 6 - 1st variable = 1st variable - 2nd variable

i.e. $a = a - b$

step 7 - Print two numbers.

step 8 - End.

Q. 5) Check the given number is positive or negative.

→ step 1 - start

step 2 - Enter the number

step 3 - compare the given number with 0

step 4 - if the number is less than 0 then it is negative

step 5 - if the number is greater than 0 then it is positive

step 6 - Print the result

step 7 - End

Q. 6) Find the given year is leap year or not.

→ step 1 - start

step 2 - Enter the year.

step 3 - Divide the year by 4

step 4 - If the year is ~~do~~ completely divided by 4 then
it is year

step 5 - otherwise it is not

step 6 - Print result

step 7 - End