(3)	5! = 0	D = 73 % 10 = 3	Q = 73/10 = 7	D = 3 * 10 = 30	A = 30 + 7 = 37	A = 37 + 1 = 38	B = 5 - 1 = 4
(4)	4! = 0	D = 38 % 10 = 8	Q = 38/10 = 3	D = 8 * 10 = 80	A = 80 + 3 = 83	A = 83 + 1 = 84	B = 3 - 1 = 2
(5)	3! = 0	D = 84 % 10 = 4	Q = 84/10 = 8	D = 4 * 10 = 40	A = 40 + 8 = 48	A = 48 + 1 = 49	B = 2 - 1 = 1
(6)	2! = 0	D = 49 % 10 = 9	Q = 49/10 = 4	D = 9 * 10 = 90	A = 94 + 1 = 94	A = 94 + 1 = 95	B = 1 - 1 = 0
(7)	1! = 0	D = 95 % 10 = 5	Q = 95/10 = 9	D = 5 * 10 = 50	A = 50 + 9 = 59	A = 59 + 1 = 60	B = 1 - 1 = 0
(8)	0 = 0						

In the 8th iteration the B value become 0 then the false block print A is return as a result that is 62

3) Given :-

$P = 5$

$q = 8$

$r = 4$

If $((P \wedge q < (10 + P))$ [here $\wedge$ stands for Bitwise XOR operator so perform Bit wise XOR operation on 5 and 9.]

$5 = 0101$

(XOR) $9 = 1001$

$P \wedge q = 1100 = 12$

And $10 + P = 10 + 5 = 15$

If $((12 < 15))$ The statement of condition is true then we perform

$P = q + q$

that is, $P = 8 + 8$

$= 16$

10/11/24

TNSIF Program

Task - 1

1) Given:

M = 30

N = 248

P = 1

Here the condition to check is $N! = 0$

we have $N = 248 \neq 0$ so the condition is true then the True block is started to execute and return as a output

No. Iteration	condition $N! = 0$	$P = N\%.10$	$M = M + N\%.P$	$N = N/10$	output Values of M N P
1	true $248! = 0$	$P = 248\%.10$ $= 8$	$M = 30 + 248\%.8$ $= 30 + 0$ $= 30$	$N = 248/10$ $N = 24$	30 (24) 8
2	After 1st Iteration $N = 24! = 0$	$P = 24\%.10$ $= 4$	$M = 30 + 24\%.4$ $= 30 + 0$ $= 30$	$N = 24/10$ $= 2$	30 (2) 4
3	then $N = 2! = 0$	$P = 2\%.10$	$M = 30 + 2\%.2$ $= 30 + 0$ $= 30$	0	30 (0) 2
4	$N = 0 = 0$				

In the 4th iteration the N value become 0 then the false block is return as a result, that is **M = 30**

2) A Given

A = 62

B = 7

condition to check $B! = 0$. Here the condition is true so the True block is started to execute

No. of Iteration	$B! = 0$	$D = A\%.0$	$Q = A/10$	$D = D * 10$	$A = D + Q$	$A = A + 1$	$B = B - 1$
(1)	$7! = 0$	$D = 62\%.10$ $= 2$	$Q = 62/10$ $= 6$	$D = 2 * 10$ $= 20$	$A = 20 + 6$ $= 26$	$A = 26 + 1$ $= 27$	$B = 7 - 1$ $= 6$
(2)	$6! = 0$	$D = 27\%.10$ $= 7$	$Q = 27/10$ $= 2$	$D = 7 * 10$ $= 70$	$A = 70 + 2$ $= 72$	$A = 72 + 1$ $= 73$	$B = 6 - 1$ $= 5$

Add. $p+q+r = 16+9+4$

$= 29.$

4) Given $a = 6$

$b = 7$

If $(4>6$ && $6>3)$

$(F$ && $T) = True$

Then

$a = (7+1)+6$

$= 8+6$

$= 14$

$b = 1+3+14$

$= 18$

return $14 - funn(13, 18)$

Again the function is called this time the if condition is getting false ($13>6$ && $18<3$) so the else part is executed Then $18-1 = 17$.

$= 14 - 17$

O/P $= -3$

5) Given

$a = 3$

$b = 4$

$c = 10$

$a = 10 + b$

$a = 10 + 4$

$a = 14$

If $((14+4+10) < (4+10+14)) = 28 < 28$

is False.

Then move on to next line of the program

If $((4+14+7) < (5+10+4))$

$25 < 19$ is also false

Then move on to next line of the program

else part

If $((4+10) < (10-4))$

$14 < 6$ is also false

Then the control is move on to the last statement of the program.

print $a+b+c$

$= 14+4+10$

$= 28$

O/p :-

28