
QUESTION NO. 01

Write two different programs for Producer Process P_p and worker process P_w .

P_p will take an integer value as an argument.

`./Pp num`

where num indicates the total number of Child processes it will create. Generate an error message if number of variables passed is not equal to one and terminate the process. P_p will take x and y as input. It will then create a child processes and replace their images with P_w program and pass x and y to the replaced program as parameters. P_w now get two variables values x and y.

Each P_w Calculate the following expression and print the result on console:

$$output = \sum_{n=1}^x y$$

After displaying the value of output terminate the current P_w process.