Name: Aditya Sudhir Patil

Roll No.:40

Prn No.:12211182

Assignment No.: 8

A screenshot of a computer program

Description automatically generated**Q.1 Write a Program to implement FCFS Non Preemptive Process Scheduling Algorithm.**

#bash Code  
#!/bin/bash

# Define the number of processes

echo -n "Enter the number of processes: "

read n

# Initialize arrays to store process arrival times, burst times, and completion times

declare -a arrival

declare -a burst

declare -a completion

# Input process arrival times and burst times

for ((i=0; i<n; i++))

do

echo -n "Enter arrival time for Process $((i+1)): "

read arrival[$i]

echo -n "Enter burst time for Process $((i+1)): "

read burst[$i]

done

# Calculate completion times

completion[0]=${arrival[0]} # The first process completes when it arrives

for ((i=1; i<n; i++))

do

if ((arrival[i] > completion[i-1]))

then

completion[$i]=${arrival[i]}

else

completion[$i]=${completion[i-1]}

fi

completion[$i]=$((completion[i] + burst[i]))

done

# Display the completion times for each process

echo "Process Arrival Time Burst Time Completion Time"

for ((i=0; i<n; i++))

do

echo " P$((i+1)) ${arrival[i]} ${burst[i]} ${completion[i]}"

done