**Algorithm 4 :-** *Write a program to demonstrate the use of Round Robin CPU Scheduling algorithm.*

import java.util.Scanner;

public class RoundRobinExample2 {

public static void main(String args[]) {

int n, x, q\_t, b\_t[], rem\_bt[];

Scanner sc = new Scanner(System.in);

System.out.print("Number of processes = ");

n = sc.nextInt();

b\_t = new int[n];

rem\_bt = new int[n];

for (x = 0; x < n; x++) {

System.out.print("Enter burst time for Process " + (x + 1) + " = ");

b\_t[x] = sc.nextInt();

rem\_bt[x] = b\_t[x];

}

System.out.print("Enter the quantum time = ");

q\_t = sc.nextInt();

System.out.print("\nProcessID\tBurst Time\tRemainingTime\n");

boolean pending = true;

while (pending) {

pending = false;

for (x = 0; x < n; x++) {

if (rem\_bt[x] > 0) {

rem\_bt[x] = rem\_bt[x] - q\_t;

if (rem\_bt[x] <= 0) {

rem\_bt[x] = 0;

}

System.out.print((x+1) + "\t\t " + b\_t[x] + "\t\t " + rem\_bt[x] + "\n");

}

if (rem\_bt[x] > 0) {

pending = true;

}

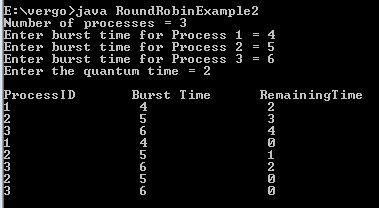
}

}

}

}

**OUTPUT :-**

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