Code for SJF Scheduling:-

```
# Function to find the waiting time for all processes
def findWaitingTime(processes, n, wt):
         rt = [0] * n
         # Copy the burst time into rt[]
         for i in range(n):
                   rt[i] = processes[i][1]
         complete = 0
         t = 0
         minm = 999999999
         short = 0
         check = False
         # Process until all processes gets completed
         while (complete != n):
                   # Find process with minimum remaining time among the processes that arrives till
                     the current time`
                   for j in range(n):
                            if ((processes[j][2] <= t) and
                                      (rt[j] < minm) and rt[j] > 0):
                                      minm = rt[j]
                                      short = i
                                      check = True
                   if (check == False):
                            t += 1
                            continue
                   # Reduce remaining time by one
                   rt[short] -= 1
                   # Update minimum
                   minm = rt[short]
                   if (minm == 0):
                            minm = 999999999
                   # If a process gets completely executed
                   if (rt[short] == 0):
                            # Increment complete
                            complete += 1
                            check = False
                            # Find finish time of current process
                            fint = t + 1
                            # Calculate waiting time
                            wt[short] = (fint - proc[short][1] -proc[short][2])
```

```
wt[short] = 0
                   # Increment time
                   t += 1
# Function to calculate turn around time
def findTurnAroundTime(processes, n, wt, tat):
         # Calculating turnaround time
         for i in range(n):
                   tat[i] = processes[i][1] + wt[i]
# Function to calculate average waiting and turn-around times.
def findavgTime(processes, n):
         wt = [0] * n
         tat = [0] * n
         # Function to find waiting time of all processes
         findWaitingTime(processes, n, wt)
         # Function to find turn around time for all processes
         findTurnAroundTime(processes, n, wt, tat)
         # Display processes along with all details
         print("Processes Burst Time Waiting","Time Turn-Around Time")
         total_wt = 0
         total tat = 0
         for i in range(n):
                   total wt = total wt + wt[i]
                   total_tat = total_tat + tat[i]
                   print(" ", processes[i][0], "\t\t",processes[i][1], "\t\t",wt[i], "\t\t", tat[i])
         print("\nAverage waiting time = %.5f "%(total wt /n) )
         print("Average turn around time = ", total tat / n)
# Driver code
if __name__ =="__main__":
         # Process id's
         proc = [[1, 6, 1], [2, 8, 1], [3, 7, 2], [4, 3, 3]]
         n = 4
         findavgTime(proc, n)
```

if (wt[short] < 0):