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GITHUB LINK: <https://github.com/madhukarbandari018/osproject_20>

CODE:

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| --- |
| #include<stdio.h> |
|  | #include<string.h> |
|  | #include<stdlib.h> |
|  | int main() |
|  | { |
|  | int noOfProcess, root, timeQuantum, totalTime=0, averageTime; |
|  | int studentArray[100]; |
|  | char sirName[20]; |
|  | printf("\nAre you HR?Enter 1 if yes"); |
|  | scanf("%d", &root); |
|  | if(root==1) |
|  | { |
|  | printf("\nEnter Your Name, Sir"); |
|  | scanf("%s", &sirName); |
|  | printf("\nWelcome %s", sirName); |
|  | printf("\nYour time is from 10 to 12 AM"); |
|  | printf("\n-------------------------------------------"); |
|  | printf("\nEnter no of students:"); |
|  | scanf("%d",&noOfProcess); |
|  | printf("\nEnter the time Quantum:"); |
|  | scanf("%d", &timeQuantum); |
|  | for(int i=0; i<noOfProcess; i++) |
|  | { |
|  | studentArray[i] = i+1; |
|  | } |
|  | for(int i=120, j=0; i>0, j<noOfProcess; i=i-timeQuantum, j++) |
|  | { |
|  | printf("\nThe doubt query handled %d", i); |
|  | printf("\nthe student is:%d",studentArray[j]); |
|  | totalTime = totalTime + timeQuantum; |
|  |  |
|  | } |
|  | averageTime = (totalTime/noOfProcess); |
|  | printf("----------------------------------------------------------------"); |
|  | printf("\nThe total Time handled by the person is : %d", totalTime); |
|  | printf("\nThe average time Query is %d", averageTime); |
|  | } |
|  | else |
|  | { |
|  | printf("\nSorry the server is down"); |
|  | printf("\nTry again later"); |
|  | } |
|  | } |

DESCRIPTION: This code explains the situation of the HR explaining the doubts to the students between the time 10 to 12 am .The time quantam is given to each student to explain their queries on online. The time quantam is given to each student because since there would be multiple requests by the students at a time . This also explains about the total time time spent on handling the issues andaverage query time.

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| ALGORITHM: |
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|  |  |
|  | IF YOU ARE HR ENTER 1 |
|  | scanf("%d", &root); |
|  | if(root==1) |
|  | { |
|  | WRITE(Enter Your Name, Sir"); |
|  |  |
|  | WRITE("\nWelcome %s", sirName); |
|  | WRITE("\nYour time is from 10 to 12 AM"); |
|  |  |
|  | WRITE("\nEnter no of students:"); |
|  |  |
|  | WRITE("\nEnter the time Quantum:"); |
|  |  |
|  | forint i=0; i<noOfProcess; i++ |
|  | { |
|  | studentArray[i] = i+1; |
|  | } |
|  | forint i=120, j=0; i>0, j<noOfProcess; i=i-timeQuantum, j++ |
|  | { |
|  | WRITE("\nThe doubt query handled %d", i); |
|  | WRITE("\nthe student is:%d",studentArray[j]); |
|  | totalTime = totalTime + timeQuantum; |
|  |  |
|  | } |
|  | averageTime = (totalTime/noOfProcess); |
|  |  |
|  | WRITE("\nThe total Time handled by the person is : %d", totalTime); |
|  | WRITE("\nThe average time Query is %d", averageTime); |
|  | } |
|  | else |
|  | { |
|  | WRITE("\nSorry the server is down"); |
|  | WRITE("\nTry again later"); |
|  | } |

COMPLEXCITY:

|  |
| --- |
| #include<stdio.h> |
|  | #include<string.h> |
|  | #include<stdlib.h> |
|  | int main() |
|  | { |
|  | int noOfProcess, root, timeQuantum, totalTime=0, averageTime; |
|  | int studentArray[100]; |
|  | char sirName[20];  COMPLEXCITY=1 |
|  | printf("\nAre you HR?Enter 1 if yes"); |
|  | scanf("%d", &root); |
|  | if(root==1)  COMPLEXCITY=1 |
|  | { |
|  | printf("\nEnter Your Name, Sir"); |
|  | scanf("%s", &sirName); |
|  | printf("\nWelcome %s", sirName); |
|  | printf("\nYour time is from 10 to 12 AM"); |
|  | printf("\n-------------------------------------------"); |
|  | printf("\nEnter no of students:"); |
|  | scanf("%d",&noOfProcess); |
|  | printf("\nEnter the time Quantum:"); |
|  | scanf("%d", &timeQuantum); |
|  | for(int i=0; i<noOfProcess; i++)  COMPLEXCITY=M |
|  | { |
|  | studentArray[i] = i+1; |
|  | } |
|  | for(int i=120, j=0; i>0, j<noOfProcess; i=i-timeQuantum, j++)  COMPLEXCITY(FOR I=N,J=M) |
|  | { |
|  | printf("\nThe doubt query handled %d", i); |
|  | printf("\nthe student is:%d",studentArray[j]); |
|  | totalTime = totalTime + timeQuantum; |
|  |  |
|  | } |
|  | averageTime = (totalTime/noOfProcess); |
|  | printf("----------------------------------------------------------------"); |
|  | printf("\nThe total Time handled by the person is : %d", totalTime); |
|  | printf("\nThe average time Query is %d", averageTime); |
|  | } |
|  | Else  COMPLEXCITY=1 |
|  | { |
|  | printf("\nSorry the server is down"); |
|  | printf("\nTry again later"); |
|  | } |
|  | } |

TEST CASES: