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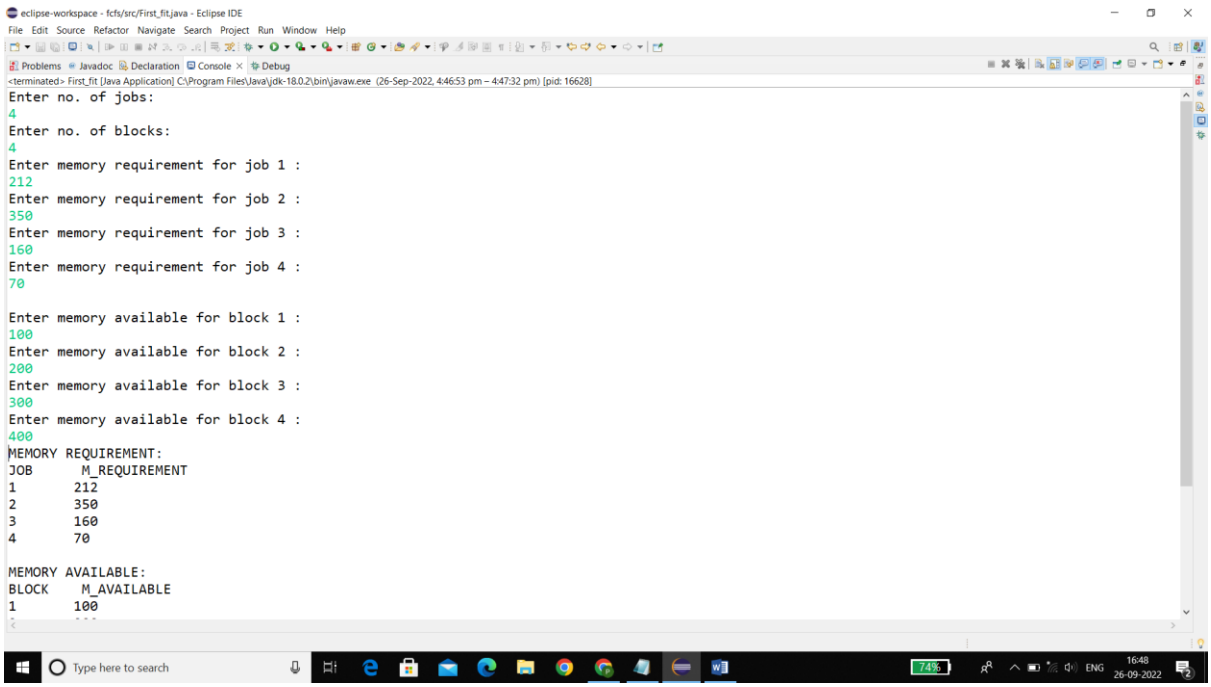
First fit

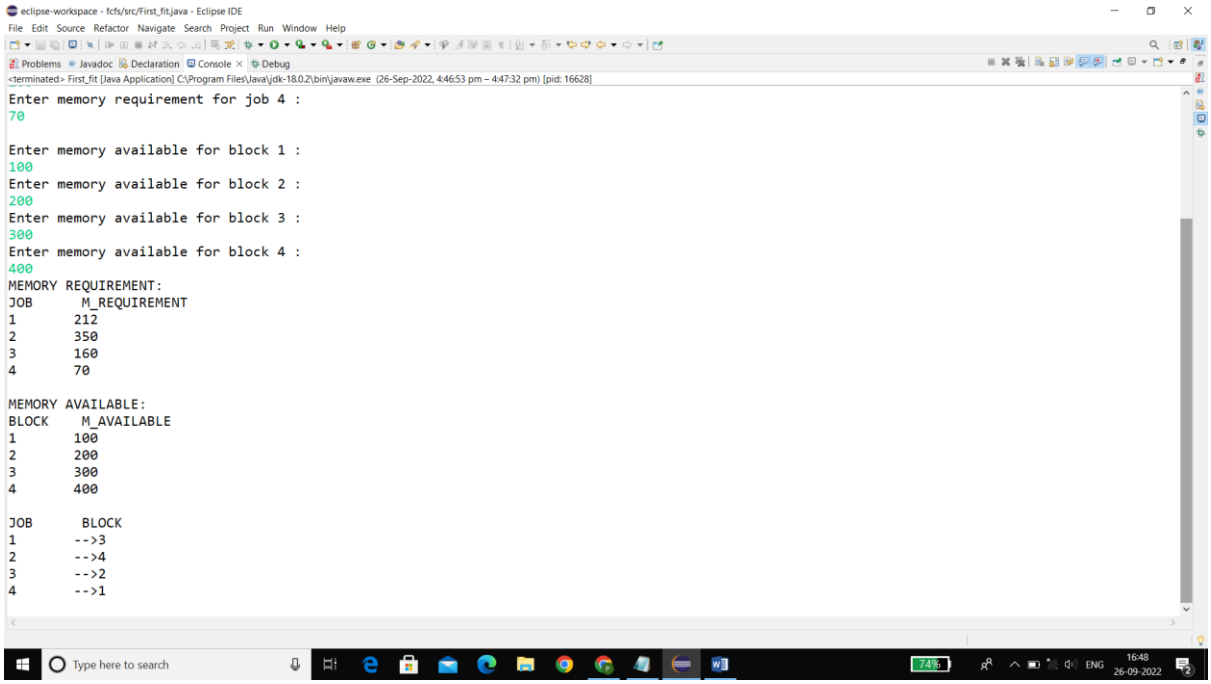
```
import java.util.Scanner;
public class  _First_fit
{
 public static void main(String args[])
 {
  Scanner sc=new Scanner(System.in);
  System.out.println("Enter no. of jobs: ");
  int n=sc.nextInt();
  int req[]=new int[n];
  int job[]=new int[n];
  System.out.println("Enter no. of blocks: ");
  int m=sc.nextInt();
  int b[]=new int[m];
  int avl[]=new int[m];
  int f[]=new int[m];
   for(int i=0;i<n;i++)
  {
   System.out.println("Enter memory requirement for job "+(i+1)+" : ");
   req[i]=sc.nextInt();
   job[i]=(i+1);
  }

  System.out.println();
  for(int i=0;i<m;i++)
  {
   System.out.println("Enter memory available for block "+(i+1)+" : ");
```

```
 avl[i]=sc.nextInt();
 b[i]=(i+1);
}
System.out.println("MEMORY REQUIREMENT:");
 System.out.println("JOB\t M_REQUIREMENT");
 for(int i=0;i<n;i++)
 {
  System.out.print(job[i]+"\t"+req[i]);
  System.out.println();
 }
  System.out.println();
 System.out.println("MEMORY AVAILABLE:");
 System.out.println("BLOCK\t M_AVAILABLE");
 for(int i=0;i<m;i++)
 {
  System.out.print(b[i]+"\t"+avl[i]);
  System.out.println();
 }
  for (int i=0;i<n;i++)
    {
     f[i]= 0;
    }
 System.out.println();
 System.out.println("JOB\t BLOCK");
 for(int i=0;i<n;i++)
 {
  for(int j=0;j<m;j++)
  {
   if(req[i]<=avl[j] && f[j]==0)
   {
```

```
    f[j]=1;
   System.out.println(job[i]+"\t-->"+b[j]);
    break;
   }
  }
 }
 sc.close();
}
}
```

OUTPUT




eclipse-workspace - fcfs/src/First_fit.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console Debug
<terminated> First_fit [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.exe (26-Sep-2022, 4:46:53 pm – 4:47:32 pm) [pid: 16628]
Enter memory requirement for job 4 :
70
Enter memory available for block 1 :
100
Enter memory available for block 2 :
200
Enter memory available for block 3 :
300
Enter memory available for block 4 :
400
MEMORY REQUIREMENT:
JOB M_REQUIREMENT
1 212
2 350
3 160
4 70
MEMORY AVAILABLE:
BLOCK M_AVAILABLE
1 100
2 200
3 300
4 400
JOB BLOCK
1 -->3
2 -->4
3 -->2
4 -->1
Type here to search
74%
ENG
16:48
26-09-2022