

Name- Pratyush Sundli
Course- BSc (IT)
Sec. 2B
Campus- Dehradun
Student ID- 20052094

Mid Term Practical

Ques2> Program to implement SJF

```
#include <stdio.h>
#define max 30

int main()
{
    int i, j, n, t, p[max], bt[max], wt[max], tat[max];
    float awt = 0, atat = 0;

    printf("Enter the number of processes \n");
    scanf("%d", &n);

    printf("Enter the process numbers \n");
    for (i = 0, i < n, i++)
    {
        scanf("%d", &p[i]);
    }

    printf("Enter the burst time of the process \n");
    for (i = 0, i < n, i++)
    {
        scanf("%d", &bt[i]);
    }

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

```

```

for (j = 0; j < n - i - 1; j++)
{
    if (bt[j] > bt[j + 1])
    {
        t = bt[j];
        bt[j] = bt[j + 1];
        bt[j + 1] = t;

        t = p[j];
        p[j] = p[j + 1];
        p[j + 1] = t;
    }
}

printf ("process \t Burst time \t waiting time \t Turnaround time\n")

for (i = 0; i < n; i++)
{
    wt[i] = 0;
    tat[i] = 0;
    for (j = 0; j < 1; j++)
    {

```

```
wt[i] = wt[i] + bt[j];
```

```
}
```

```
tat[i] = wt[i] + bt[i];
```

```
awt = awt + wt[i];
```

```
atat = atat + tat[i];
```

```
printf("%d\t %d\t\t %d\n", p[i] bt[i], wt[i], tat[i]);
```

```
}
```

```
awt = awt / n;
```

```
atat = atat / n;
```

```
printf("Average waiting time = %.f\n", awt);
```

```
printf("Average Turnaround Time = %.f\n", atat);
```

```
return 0;
```

```
}
```

Bundli
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