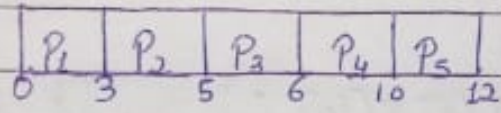


Name = Abhay Saklani
 Student Id = 20051007
 Student Roll no = 2023010
 Subject → Operating system
 Section = A
 Course = BSC.IT

Ques 1 You are given _____ algorithm.
 Ans

Grantt chart



Process Id	Arrival time	Burst time	TAT	WT
P ₁	0	1	3	2
P ₂	0	2	5	3
P ₃	0	1	6	5
P ₄	0	4	10	6
P ₅	0	2	12	10
			<u>36</u>	<u>26</u>

∴ Average waiting time = $\frac{26}{5} \Rightarrow 5.2$

∴ Average turn-around time $\Rightarrow \frac{36}{5} = 7.2$

Name \Rightarrow Abhay Saklani
Student Id \Rightarrow 20051007
Student Roll no \Rightarrow 2023010
Subject \Rightarrow Operating System
Section \Rightarrow A
Course \Rightarrow BSC-IT

Ques 2 Write a C Program - - - - - algorithm
Ans

```
#include <stdio.h>
int main ()
{
    int a[10], b[10], x[10], i, j, smallest, count = 0, time, n;
    double avg = 0, tt = 0, end;
    printf("Enter the number of Processes: \n");
    scanf("%d", &n);
    printf("Enter arrival time \n");
    for (i = 0; i < n; i++)
        scanf("%d", &a[i]);
    printf("Enter burst time \n");
    for (i = 0; i < n; i++)
        x[i] = b[i];
    b[9] = 9999;

    for (time = 0; count != n; time++)
    {
        smallest = 9;
        for (i = 0; i < n; i++)
        {
            if (a[i] <= time && b[i] < b[smallest] && b[i] > 0)
                smallest = i;
        }
    }
```

```

}
b[smallest]--;
if (b[smallest] == 0)
{
    count++;
    end = time + 1;

    avg = avg + end - a[smallest] - x[smallest]; tt = tt + end - a
    [smallest];
}
}
printf("\n\n Average waiting time = %.1f \n", avg / n);
printf("Average Turnaround time = %.1f \n", tt / n);
return 0;
}

```

Abhay

Date \Rightarrow 19/7/2021

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enter the number of Processes:
5
enter arrival time
2 1 4 0 2
enter burst time
10 5 1 6 3

Average waiting time = 5.400000
Average Turnaround time = 10.400000

...Program finished with exit code 0
Press ENTER to exit console.

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