

ASSIGNMENT NO. 6

FCFS

```
#include <stdio.h>

int main()
{
    int incomingStream[] = {4,7,6,1,7,6,7,2,7,2};

    int pageFaults = 0;

    int frames = 3;

    int m, n, s, pages;

    pages = sizeof(incomingStream)/sizeof(incomingStream[0]);

    printf("Incoming \t Frame 1 \t Frame 2 \t Frame 3");

    int temp[frames];

    for(m = 0; m < frames; m++)
    {
        temp[m] = -1;
    }

    for(m = 0; m < pages; m++)
    {
        s = 0;

        for(n = 0; n < frames; n++)
        {
            if(incomingStream[m] == temp[n])
            {
                s++;
            }
        }
    }
}
```

```

pageFaults--;

}

}

pageFaults++;

if((pageFaults <= frames) && (s == 0))
{
temp[m] = incomingStream[m];
}

else if(s == 0)
{
temp[(pageFaults - 1) % frames] = incomingStream[m];
}

printf("\n");

printf("%d\t\t",incomingStream[m]);

for(n = 0; n < frames; n++)
{
if(temp[n] != -1)
printf(" %d\t\t", temp[n]);

else

printf(" - \t\t");
}

}

printf("\nTotal Page Faults:\t%d\n", pageFaults);

```

```
return 0;  
}
```

OUTPUT:

```
guest-lzOeRo@ubuntu: ~  
guest-lzOeRo@ubuntu:~$ gcc pr6.c -lpthread  
guest-lzOeRo@ubuntu:~$ ./a.out  
Incoming      Frame 1      Frame 2      Frame 3  
4              4              -              -  
7              4              7              -  
6              4              7              6  
1              1              7              6  
7              1              7              6  
6              1              7              6  
7              1              7              6  
2              1              2              6  
7              1              2              7  
2              1              2              7  
Total Page Faults: 6  
guest-lzOeRo@ubuntu:~$
```