OPERATING SYSTEM - CS23431

EXP 11(A)

FIFO PAGE REPLACEMENT

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PROGRAM:

#include <stdio.h>

int main() { int n,frame\_size,front=0,count=0,page\_faults=0; printf("Enter size of reference string: "); scanf("%d",&n); int pages[n]; for(int i=0;i<n;i++)

{ printf("Enter [%d]: ",i+1); scanf("%d",&pages[i]);

}

printf("Enter page frame size: "); scanf("%d",&frame\_size); int mem[frame\_size]; for (int i = 0; i < n; i++) { int found = 0; for (int j = 0; j < count; j++) { if (mem[j] == pages[i]) { found = 1; break;

}

}

printf("%d -> ", pages[i]); int f=1; if (!found) { if (count < frame\_size) { mem[count++] = pages[i];

} else {

mem[front] = pages[i]; front = (front + 1) % frame\_size; }

page\_faults++;

} else { f=0; printf("No Page Fault ");

} if(f)

{ for (int j = 0; j < count; j++) { printf("%d ", mem[j]);

}

}

printf("\n");

}

printf("\nTotal Page Faults: %d\n", page\_faults);

return 0; }

OUTPUT:

