OPERATING SYSTEMS

PROGRAM 2:

#include <stdio.h>

int main()

{

int referenceString[10], pageFaults = 0, m, n, s, pages, frames;

printf("\nEnter the number of Pages:\t");

scanf("%d", &pages);

printf("\nEnter reference string values:\n");

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

{

printf("Value No. [%d]:\t", m + 1);

scanf("%d", &referenceString[m]);

}

printf("\n What are the total number of frames:\t");

{

scanf("%d", &frames);

}

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(referenceString[m] == temp[n])

{

s++;

pageFaults--;

}

}

pageFaults++;

if((pageFaults <= frames) && (s == 0))

{

temp[m] = referenceString[m];

}

else if(s == 0)

{

temp[(pageFaults - 1) % frames] = referenceString[m];

}

printf("\n");

for(n = 0; n < frames; n++)

{

printf("%d\t", temp[n]);

}

}

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

return 0;

}

OUTPUT:

