EX NO: 7   PAGING TECHNIQUE OF MEMORY MANAGEMENT

DATE:

AIM:

 To write a c program to implement Paging technique for memory management.

ALGORITHM:

STEP 1: Start

STEP 2: Declare page number, page table, frame number and process size.

STEP 3: Read the process size, total number of pages

STEP 4: Read the relative address

STEP 5: Calculate the physical address

STEP 6: Display the address

STEP 7: Stop

CODE:

```
#include<stdio.h>
#include<conio.h>
int l[16] ,p[10];
int n, page;
void binary(int n);
void phyadd(int n);
void logadd(int key)
{
 for(int i=0;i<16;i++)
 {
 if(key==l[i])
 {
 n=i;
 printf("index %d\n",n);
 }
 }
 phyadd(n);
```

```c
}
void phyadd(int n)
{
int off,pageno,temp,add;
off=n%page;
printf("off %d\n",off);
pageno=n/page;
printf("pageno %d\n",pageno);
for(int i=0;i<page;i++)
{
if(pageno==i)
{
temp=p[i];
printf("temp %d",temp);
}
}
add=(temp*page)+off;
printf("\n%d",add);
}
int main()
{
int key;
printf("enter value of logical address\n");
for(int i=0;i<16;i++) {
printf(" logical address %d: ",i);
scanf("%d",&l[i]);
}
printf("\nenter pagesize\n");
scanf("%d",&page);
for(int i=0;i<page;i++) {
```

```
printf("size of page %d: ",i);

scanf("%d",&p[i]);

}

printf("\nenter value to find physical address\n");

scanf("%d",&key);

logadd(key);

getch();

}
```

OUTPUT:

```
enter value of logical  address
 logical address 0: 11
 logical address 1: 12
 logical address 2: 13
 logical address 3: 15
 logical address 4: 17
 logical address 5: 24
 logical address 6: 18
 logical address 7: 19
 logical address 8: 20
 logical address 9: 14
 logical address 10: 45
 logical address 11: 67
 logical address 12: 89
 logical address 13: 34
 logical address 14: 56
 logical address 15: 7

enter pagesize
3
size of page 0: 11
size of page 1: 45
size of page 2: 56

enter value to find physical address
100
off 0
pageno 0
temp 11
33
```

Observation (20)	
Record(5)	
Total (25)	
Intial	

RESULT:

Thus the c program for implementing Paging technique for memory management are executed successfully and the outputs are verified