b)INDEXED FILE ALLOCATION STRATEGY PROGRAM:

```
#include<stdio.h>
#include<conio.h>
int main()
{
        int n,m[20],i,j,index[20],s[20],b[20][20],x;
        printf("enter no.of files:");
        scanf("%d",&n);
        for(i=0;i<n;i++)
        {
                printf("enter index block of file%d:",i+1);
                scanf("%d",&index[i]);
                printf("enter no.of blocks occupied by file%d:",i+1);
                scanf("%d",&m[i]);
                printf("enter blocks of file%d:",i+1);
                for(j=0;j<m[i];j++)
                {
                         scanf("%d",&b[i][j]);
                }
        }
        printf("\n file \t index \t length \n");
        for(i=0;i<n;i++)
        {
                printf("%d \t %d \t %d \n",i+1,index[i],m[i]);
        }
        printf("\n enter file name: ");
        scanf("%d",&x);
        printf("filename is : %d \n",x);
```

OUTPUT:

```
enter no.of files:2
enter index block of filel:3
enter no.of blocks occupied by filel:4
enter blocks of filel:1 3 5 7
enter index block of file2:4
enter no.of blocks occupied by file2:4
enter blocks of file2:2 4 6 8
file
         index
                 length
         3
                 4
2
                 4
enter file name: 1
filename is: 1
index is: 3
block occupied are :
  3 -> 1
  3 -> 3
```

C)LINKED FILE ALLOCATION STRATEGY PROGRAM:

```
#include<stdio.h>
#include<string.h>
struct file
{
        char fname[10];
        int start, size, block[10];
}f[10];
int main()
{
        int i,j,n;
        printf("enter no.of files:");
        scanf("%d",&n);
        for(i=0;i<n;i++)
        {
                 printf("enter file name:");
                 scanf("%s",f[i].fname);
                 printf("enter starting block:");
                 scanf("%d",&f[i].start);
                 f[i].block[0]=f[i].start;
                 printf("enter no.of blocks:");
                 scanf("%d",&f[i].size);
                 printf("enter block numbers:");
                 for(j=1;j<=f[i].size;j++)
                 {
                         scanf("%d",&f[i].block[j]);
                 }
                 printf("\n");
```

```
printf("file \t start \t size \t block \n");

for(i=0;i<n;i++)
{
          printf("%s \t %d \t %d \t",f[i].fname,f[i].start,f[i].size);
          for(j=1;j<=f[i].size-1;j++)
          {
                printf("%d ---> ",f[i].block[j]);
          }
          printf("%d",f[i].block[j]);
          printf("\n");
}

return 0;
}
```

OUTPUT:

```
enter no.of files:2
enter file name:abd
enter starting block:2
enter no.of blocks:4
enter block numbers:2 4 6 8
enter file name: virat
enter starting block: 4
enter no.of blocks:4
enter block numbers:1 3 5 7
file
                          block
         start
                 size
abd
         2
                  4
                         2 ---> 4 ---> 6 ---> 8
         4
                  4
                         1 ---> 3 ---> 5 ---> 7
virat
```