

QUES 13: Write a program to implement first fit, best fit and worst fit allocation strategies.

```
#include<stdio.h>

#include<conio.h>

#define max 25

void main()

{

    int frag[max],b[max],f[max],i,j,nb,nf,temp;

    static int bf[max],ff[max];

    clrscr();

    printf("\nEnter the number of blocks:");

    scanf("%d",&nb);

    printf("Enter the number of files:");

    scanf("%d",&nf);

    printf("\nEnter the size of the blocks:-\n");

    for(i=1;i<=nb;i++)

    {

        printf("Block %d:",i);

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

    }

    printf("Enter the size of the files:-\n");
```

```

    for(i=1;i<=nf;i++)
    {
        printf("File %d:",i);

        scanf("%d",&f[i]);
    }
    for(i=1;i<=nf;i++)
    {
        for(j=1;j<=nb;j++)
        {
            if(bf[j]!=1)
            {
                temp=b[j]-f[i];

                if(temp>=0)
                {
                    ff[i]=j;

                    break;
                }
            }
        }

        frag[i]=temp;

        bf[ff[i]]=1;
    }

```

```

        printf("\nFile_no:\tFile_size :\tBlock_no:\tBlock_size:\tFragment");

    for(i=1;i<=nf;i++)

        printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d",i,f[i],ff[i],b[ff[i]],frag[i]);

    getch();

}

```

OUTPTU:

```

Enter the number of blocks:4
Enter the number of files:3

Enter the size of the blocks:-
Block 1:5
Block 2:8
Block 3:4
Block 4:10
Enter the size of the files:-
File 1:1
File 2:4
File 3:7

File_no:      File_size :      Block_no:      Block_size:      Fragment
1             1             1             5             4
2             4             2             8             4
3             7             4             10            3

```