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Subject ⇒ OS Practical
PB1 - 202
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1) Program:-

```c
# include <stdio.h>
# include <conio.h>
# define max 25
void main ()
{
    int frag[max], bf[max], f[max], i, j, nb, nf, temp;
    static int bf[max], ff[max];
    Printf("\n\t Memory Management Scheme - firstfit");
    Printf("\n Enter the number of blocks:");
    Scanf("%d", & nb);
    Printf("Enter the no. of files:");
    Scanf("%d", & nf);
    Printf("\n Enter the size of the blocks:-\n");
    for (i=1; i<=nb; i++)
    {
        Printf("Block of 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++)
```

Run · Debug · Stop · Share · Save · () Beautify

main.c

```
1 - /*******************************************************************
2
3   Welcome to GDB Online.
4   GDB online is an online compiler and debugger tool for C, C++, Python, PHP, Ruby,
5   C#, VB, Perl, Swift, ProLog, Javascript, Pascal, HTML, CSS, JS
6   Code, Compile, Run and Debug online from anywhere in world
```

input

```
        Memory Management Scheme - First Fit
Enter the number of blocks:3
Enter the number of files:2

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

File_no:          File_size :     Block_no:       Block_size:     Fragement
1                 1               1               5               4
2                 4               3               7               3

...Program finished with exit code 0
Press ENTER to exit console.
```

```c
if (fdff          if (bf[j]!=1)
          {         {
              temp=b[j]-f[i];
              if (temp >=0)
          {
              ff[i]=j;
              break;
          }
          }
          }
          }
          frag[i]=temp;
          bf[ff[i]]=1;
          }
          printf("\n file_no:\t file_size:\t Block_no:\t
          Block_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();
          }
```

Rawat