
6. Develop a C program to simulate the following contiguous memory allocation Techniques: Worst fit b) Best fit c) First fi

First Fit

```
#include <stdio.h>
#include <conio.h>
void main()
  int frag[10], b[10], f[10], i, j, nb, nf, temp;
   int isalloted[10], allotedb[10];
  printf("\n\tMemory Management Scheme - First Fit");
  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 \le nb; i++)
    printf("Block %d:", i);
    scanf("%d", &b[i]);
  printf("Enter the size of the files :-\n");
  for (i = 1; i \le nf; i++)
     printf("File %d:", i);
     scanf("%d", &f[i]);
  for (i = 1; i \le nf; i++)
       temp=-1;
     for (j = 1; j \le nb; j++)
       if (isalloted[i]!=1)
          if(b[j]>=f[i])
               frag[i] = b[j] - f[i];
               allotedb[i] = j;
               temp=i;
               isalloted[j]=1;
                                  break;
```

```
}
                        }
                       if (temp==-1)
                       allotedb[i]=-1;
  printf("\nFile_no:\tFile_size :\tBlock_no:\tBlock_size:\tFragement");
  for (i = 1; i \le nf; i++)
       if(allotedb[i]!=-1)
        {
     printf("\n\%d\t\t\%d\t\t\%d\t\t\%d", i, f[i], allotedb[i], b[allotedb[i]], frag[i]);
  else
       printf("\n\%d\t\t\%d\t\t", i, f[i]);
       printf(" not allocated\n");
}
```