Student Name:

Question no:-_10

CODE:-

```
#include<stdio.h>
int main()
{
int i,j,sum=0,n;
int arr1[20], arr2[20];
int head;
printf(“enter number of requests\t”);
scanf(“%d”,&n);
printf(“enter position of head\t”);
scanf(“%d”,&head);
printf(“enter elements of disk queue\n”);
for(i=0;i<n;i++)
{
scanf(“%d”,&arr1[i]);
arr2[i]=head-arr1[i];
if(arr2[i]<0)
{
arr2[i]=arr1[i]-head;
}
```

```
head=arr1[i];
sum=sum+arr2[i];
}
printf("\nmovement of total cylinders %d",sum);
return 0;
}
```

Output:-

```
Enter number  of  requests                9
Enter position of head  143
Enter elements of disk queue
86
1470
913
1774
948
1509
1022
1750
130

movement of total cylinders  7081
…Program finished with exit code 0
Press ENTER to exit console
```