OEP

AIM : Write a shell script of first fit algorithm

Shell script :

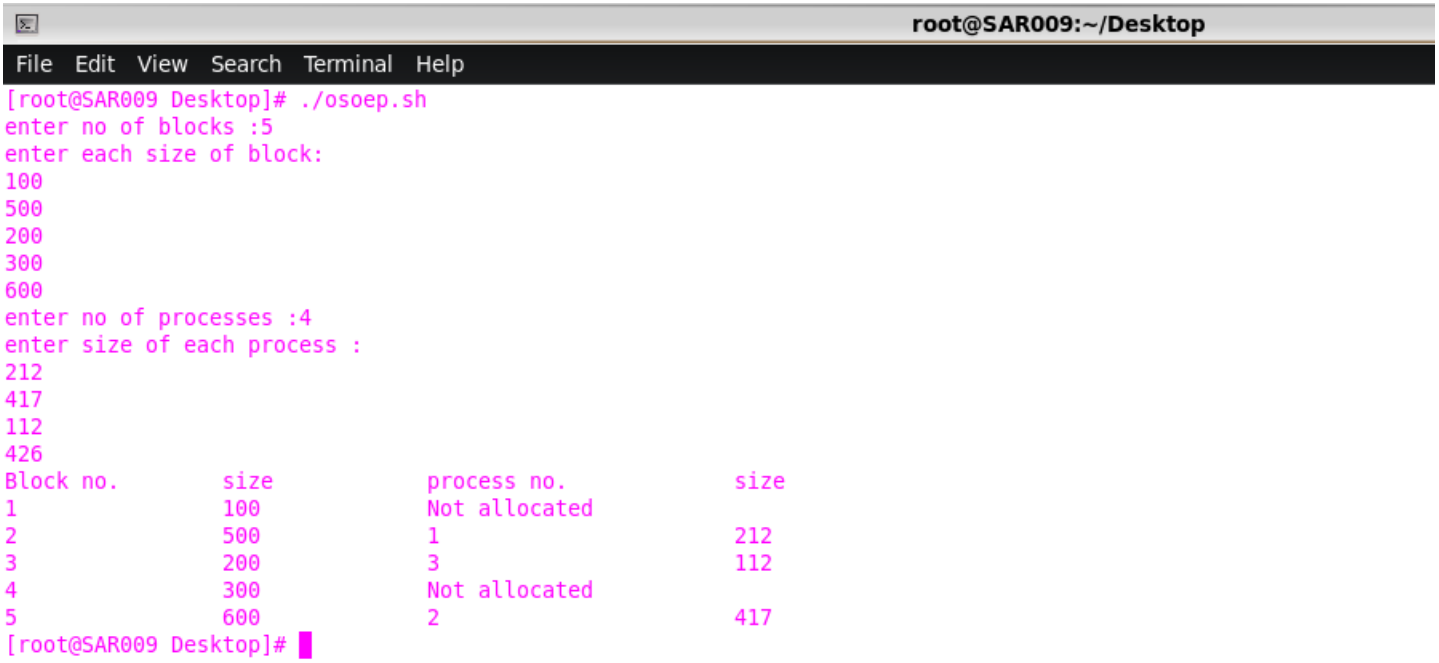
```
for((i=0;i<10;i++))
do
flags[i]=0
alloc[i]=-1
done
echo -e "enter no of blocks :\c"
read bno
while [ $bno -le 0 ]
do
echo "block numbers can not be 0 or negetive"
echo "enter agian"
read bno
done
echo "enter each size of block:"
for((i=0;i<$bno;i++))
do
read bsize[i]
while [ ${bsize[$i]}  -lt 0 -o ${bsize[$i]} -eq 0 ]
do
echo "enter only > o  value"
echo "enter the values again"
read bsize[i]
done
done


echo -e "enter no of processes :\c"
read pno
while [ $pno -le 0 ]
do
echo "process numbers can not be negetive"
echo "enter agian"
read pno
done
```

```
echo "enter size of each process :"
for((i=0;i<$pno;i++))
do
read psize[i]
while [ ${psize[$i]}  -lt 0 -o ${psize[$i]} -eq 0 ]
do
echo "enter only > o  value"
echo "enter the values again"
read psize[i]
done
done



for((i=0;i<$pno;i++))
do
for((j=0;j<$bno;j++))
do
if [ ${flags[$j]} -eq 0 -a ${bsize[$j]} -ge ${psize[$i]} ]
then
alloc[j]=$i
flags[j]=1
break
fi
done
done
echo -e "Block no. \t size \t\t process no. \t\t size"
for((i=0;i<$bno;i++))
do
echo -e "`expr $i + 1` \t\t ${bsize[$i]} \t\t \c"
if [ ${flags[$i]} -eq 1 ]
then
a=`expr ${alloc[$i]} + 1`
echo -e "$a \t\t\t ${psize[${alloc[$i]}]}"
else
echo "Not allocated"
fi
done
```


root@SAR009:~/Desktop
File Edit View Search Terminal Help
[root@SAR009 Desktop]# ./osoep.sh
enter no of blocks :5
enter each size of block:
100
500
200
300
600
enter no of processes :4
enter size of each process :
212
417
112
426
Block no. size process no. size
1 100 Not allocated
2 500 1 212
3 200 3 112
4 300 Not allocated
5 600 2 417
[root@SAR009 Desktop]#