Institute of Computer Technology
B. Tech Computer Science and Engineering
Subject: DS (2CSE302)

PRACTICAL-3

AIM: - To learn about basic operations of an array.

- Jasmin is working as a HR in Tele.pvt.ltd. As per her job role, she needs to take follow up of clients based on week. She needs to check her records using adding input runtime as she is checking data on random days. Implement a C code to perform following operations:

1. She wants to add number of follow-ups according to number of week. (Hint: Take number of week from user & based on that ask user to enter elements.)

i.e.

```
Enter Number of weeks: 5
Enter no. of follow-ups for 5 weeks:
23
21
26
30
18
Number of follow-ups per week:
Week[1]=23
Week[2]=21
Week[3]=26
Week[4]=30
Week[5]=18
```

2. After one day, owner ask her for the data. He said he want record from 1 week prior than current data. (Hint: Insert data at the first position)

i.e.

```
Enter location where you want to insert the dat
a: 1
Enter new data: 25
Number of follow-ups per week (After Insertion):
Week[1]=25
Week[2]=23
Week[3]=21
Week[4]=26
```

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Week[5]=30
Week[6]=18

3. Also manager asked to remove data of last week.
i.e.
Enter location from where you want to delete the data: 6
Number of follow-ups per week (After Deletion):
Week[1]=25
Week[2]=23
Week[3]=21
Week[4]=26
Week[5]=30

4. Manager wants to search record based on week. (Hint: Take input from user to ask week number)
i.e.
Enter value of follow-ups which you want to search: 21
21 follow-ups are taken in week-3 by Jasmin.

5. He has taken follow-up of client personally and afterwards he will assign it to Jasmin so he asked to increase last data by one.
i.e.
Enter location where you want to update the data: 5
Enter value which should be updated: 31
Number of follow-ups per week (After Updating):
Week[1]=25
Week[2]=23
Week[3]=21
Week[4]=26
Week[5]=31

SOLUTION

```
#include <stdio.h>
int main()
{
int Yash[10],n;
int j,week,Loc,new_data;
int pos;
int search;

/*----------QUES ONE--------------*/
printf("\nEnter Number of week: \n");
scanf("%d",&week);
n=week;
```

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```
printf("\nEnter no. of follow-ups for %d week: \n",week);
for(int i=0;i<week;i++)
{
scanf("%d",&Yash[i]);
}

printf("\nNumber of follow-ups per week:\n");
for(int i=0;i<week;i++)
{
printf("Week[%d]=%d\n",i+1,Yash[i]);
}

/*---------- QUES TWO----------*/
printf("\nEnter location where you want to insert the data: ");
scanf("%d",&Loc);
printf("\nEnter new data: ");
scanf("%d",&new_data);
week=week+1;
j=week;
while(j>=0)
{
Yash[j+1]=Yash[j];
j=j-1;
}

Yash[Loc-1]=new_data;

printf("\nNumber of follow-ups per week(After Insertion):\n");
for(int i=0;i<week;i++)
{
printf("Week[%d]=%d\n",i+1,Yash[i]);
}
/*---------- QUES THREE----------*/

week=n;
printf("\nEnter location from where you want to delete the data: \n");
scanf("%d",&pos);
j=pos;
while(j<week)
{
Yash[j-1]=Yash[j];
j=j+1;
}
```

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```
printf("\nNumber of follow-ups per week(After Deletion):\n");
for(int i=0;i<week;i++)
{
printf("Week[%d]=%d\n",i+1,Yash[i]);
}

/*------------ QUES FOUR------------*/
week=n;
printf("\nEnter value of follow-ups which you want to search: \n");
scanf("%d",&search);
j=0;
while(j<week)
{
if(Yash[j]==search)
{
break;
}
j++;
}
printf("\n%d follow-ups are taken in week-%d by Jasmin.\n",Yash[j],j+1);

/*------------ QUES FIVE------------*/

printf("\nEnter location where you want to update the data: \n");
scanf("%d",&Loc);
printf("\nEnter value which should be updated: \n");
scanf("%d",&new_data);
printf("\nNumber of follow-ups per week(After Updating):\n");
Yash[Loc-1]=new_data;
for(int i=0;i<week;i++)
{
printf("Week[%d]=%d\n",i+1,Yash[i]);
}
return 0;
}
```

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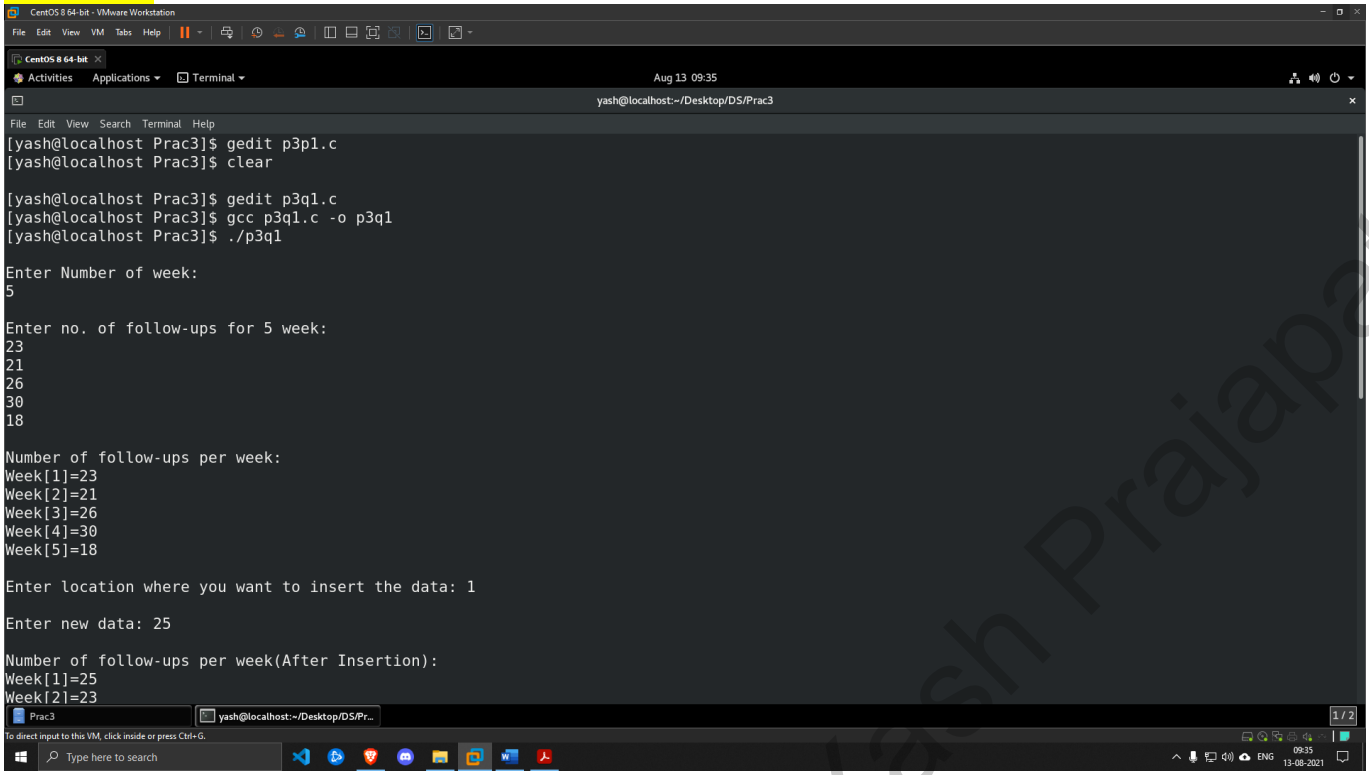
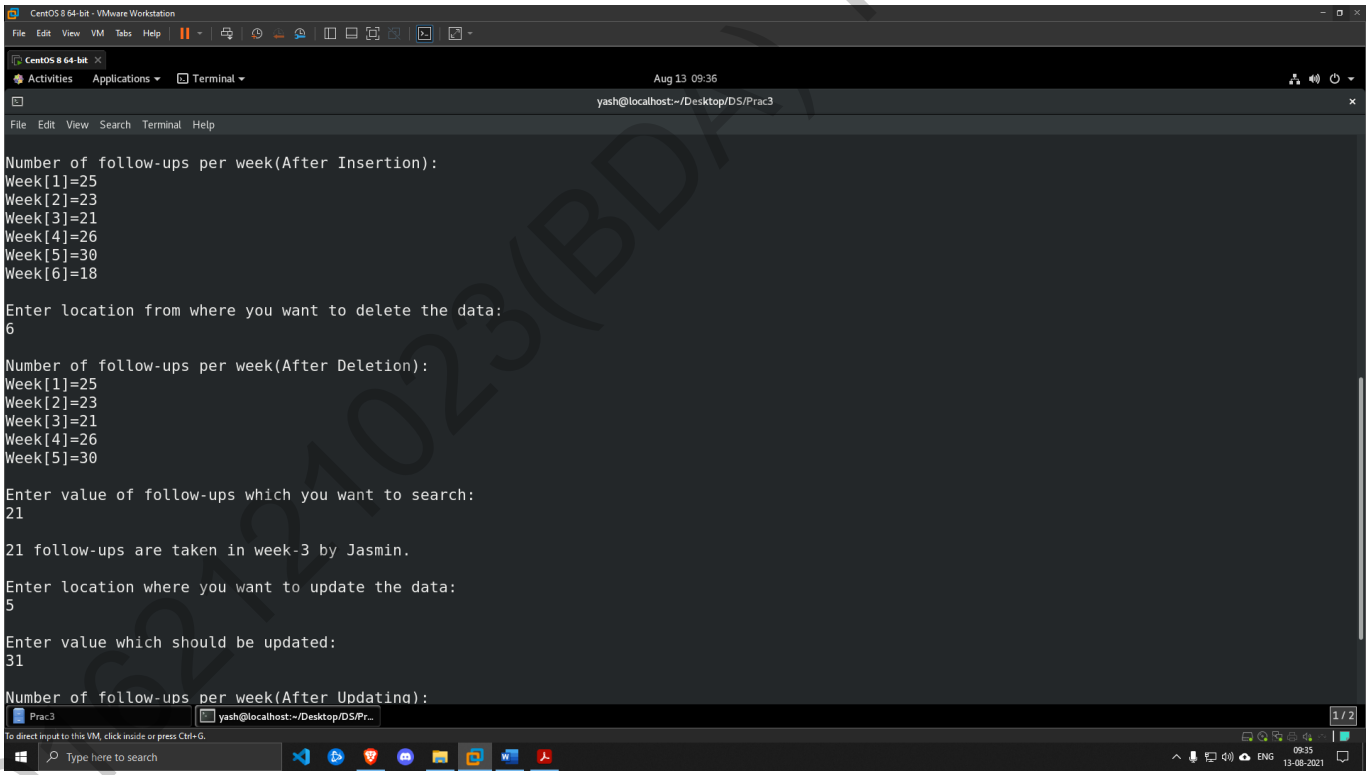
OUTPUT





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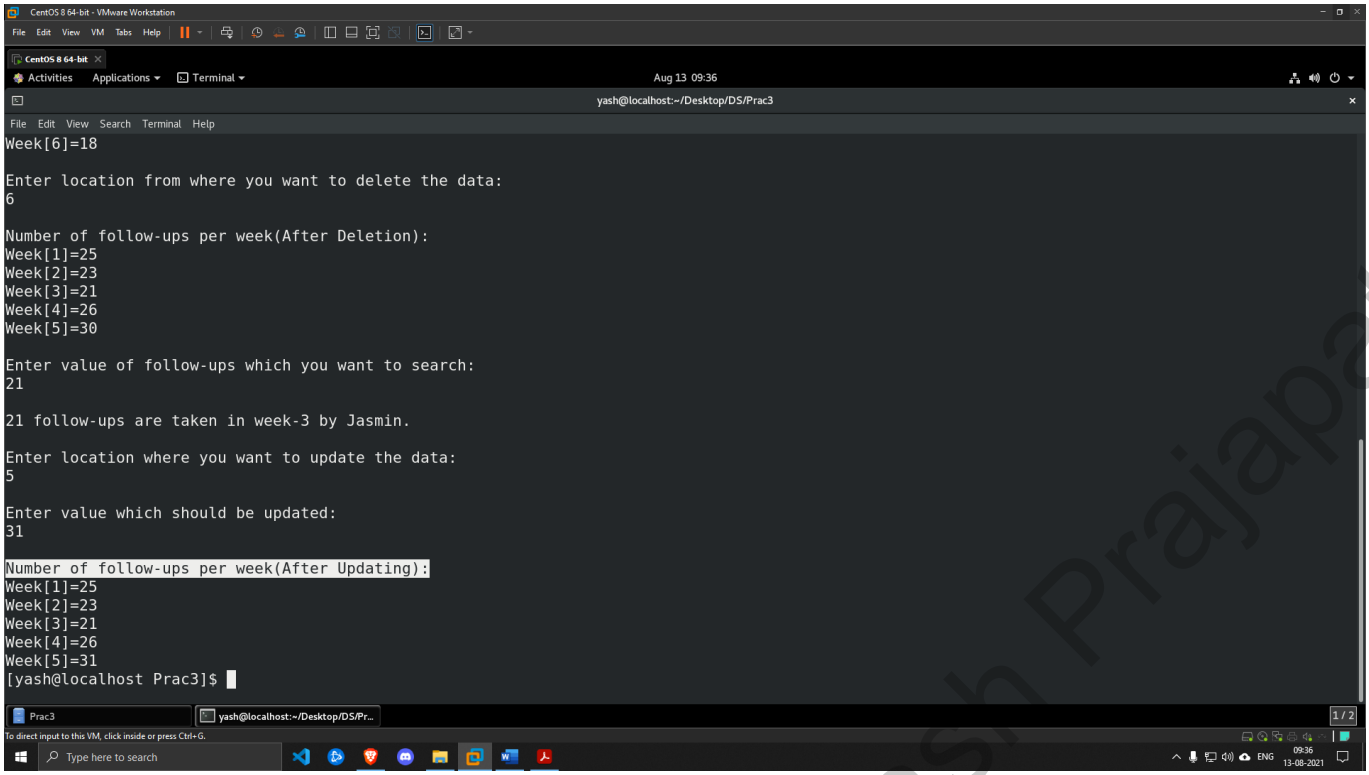

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