

Write a prog. to use these operations.

- 1) Traversing
- 2) Insertion
- 3) Deletion
- 4) Updation using switch case.

Sol:- #include <stdio.h>
#include <conio.h>
#define max 100
void main ()
{
 int i, n, a[max], l, d, x, y, k;
 clrscr();
 do {
 printf (" Enter 1 - to use
traversing \n 2 - to use
insertion Operation \n 3 - to exit")
 scanf ("%d", & x);
 switch (x)
 {
 case 1 :
 printf ("\n Enter the no.
of elements ");

```

for(i=1; i<=n; i++)
{
    scanf("%d", &a[i]);
}
printf("\n the elements are\n");
for(i=1; i<=n; i++)
{
    printf("%d\t", a[i]);
}
break;

```

Case 2:

~~do~~ do {

```

    printf("Enter the data
to be entered ");
    scanf("%d", &d);
    printf("\n Enter 1- to
insert at the end of
array\n 2- at the beginning
\n 3- at a location\n
4- to exit");
scanf("%d", &y);
switch(y)
{


```

Case 1:

```

a[n] = d;
printf("\n After
insertion");
for(i=0; i<=n; i++)
{
    printf("%d\t", a[i])
}
break;

```

Case 2:

```

for(i=n-1; i>=0; i--)
{
    a[i+1] = a[i]
}
a[0] = d;
printf("\n After insertion");
for(i=0; i<=n; i++)
{
    printf("%d\t", a[i]);
}
break;

```

Case 3:

```

printf("Enter location");
scanf("%d", &l);
for(i=n-1; i>=l; i--)

```

{

a[i+1] = a[i]

}

a[0] = d;

printf("After insertion",

for (i=0; i<=n; i++)

{

printf("%d ", a[i]);

}

break;

Case 4:

break;

default:

break;

}

Case 3:

break;

default:

break;

} while (y != 4);

}

} while (x != 3);

}

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Output:-

Enter 1- to use traversing operation
2- to use insertion
3- exit

Enter n

enter elements

1

2

3

Enter 1 - Traversing

2- insertion

3- exit

Enter 1- insert end of array

2- beginning of array

3- location

4- exit

after insertion 1 2 3 4