

// Experiment 1: WAP to insert an element in the array at the beginning, at the end, and at a specific position. Use a menu-driven approach to define the user-defined function for the given task.

```
#include<stdio.h>
```

```
int maxsize = 5;
```

```
int crrSize=1;
```

```
int value;
```

```
int value1;
```

```
int value2;
```

```
int idx;
```

```
void addend(int arr[]){  
    if(crrSize<maxsize){  
        arr[crrSize]=value;  
        crrSize++;  
    }  
    else{  
        printf("Array is full \n");  
    }  
}
```

```
void addbegining(int arr[]){  
    if(crrSize<maxsize){  
        for(int i=crrSize;i>0;i--){  
            arr[i]=arr[i-1];  
        }  
        arr[0]=value1;  
        crrSize++;  
    }  
    else{  
        printf("Array is full \n");  
    }  
}
```

```
void addspecificIndex(int arr[]){  
    if(crrSize<maxsize){  
        for(int i=crrSize;i>=idx;i--){  
            arr[i]=arr[i-1];  
        }  
        arr[idx]=value2;  
        crrSize++;  
    }  
    else{  
        printf("Array is full \n");  
    }  
}
```

```
}  
}
```

```
void print(int arr[],int n){  
    for(int i=0;i<n;i++){  
        printf("%d\t",arr[i]);  
    }  
}
```

```
int main(){  
    int arr[maxsize];  
    // for(int i=0;i<currSize;i++){  
    //     printf("Enter a number ");  
    //     scanf("%d",&arr[i]);  
    // }  
    // print(arr,currSize);  
    arr[0]=1;  
    printf("\n");  
  
    printf("Enter a value add in the end of the array \n");  
    scanf("%d",&value);  
    addend(arr);  
    print(arr,currSize);  
    printf("\n");  
  
    printf("Enter a value add in the beginning in the array \n");  
    scanf("%d",&value1);  
    addbegining(arr);  
    print(arr,currSize);  
    printf("\n");  
  
    printf("Enter a value and index where to be add in the array ");  
    scanf("%d%d",&value2,&idx);  
    addspecificIndex(arr);  
    print(arr,currSize);  
    printf("\n");  
}
```