

PR-5: Array:-

1. Write a C program to print all negative element from static array.

```
#include<stdio.h>

int main() {
    int roll[5] = {-52, 32, -62, 97, 12} , i;

    for (i=0; i<=4; i++) {
        if (roll[i] < 0) {
            printf("%d\n", roll[i]);
        }
    }

    return 0;
}
```

Output:-



```
-52
-62
```

2. Write a C program to print all negative element from dynamic array.

```
#include<stdio.h>

int main() {
    int arr[100], n, i;

    printf("Please enter size of an Array: ");
    scanf("%d", &n);

    for (i=0; i<n; i++) {
        printf("Please enter element of array %d: ",i);
        scanf("%d", &arr[i]);
    }

    printf("Ans element of array: ");
    for (i=0; i<n; i++) {
        if (arr[i] < 0) {
            printf("%d ", arr[i]);
        }
    }

    return 0;
}
```

Output:-

```
Please enter size of an Array: 5
Please enter element of array 0: 3
Please enter element of array 1: -4
Please enter element of array 2: -8
Please enter element of array 3: 614
Please enter element of array 4: -12
Ans element of array: -4 -8 -12
```

3. Write a C program to print all even element from static array.

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

```
int main() {
    int roll[5] = {51, 42, 86, 31, 321}, i;

    for (i=0; i<=4; i++) {
        if (roll[i] %2 == 0) {
            printf("%d\n", roll[i]);
        }
    }

    return 0;
}
```

Output:-

```
42
86
```

4. Write a C program to print all odd element from dynamic array.

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

```
int main() {
    int arr[100], n, i;

    printf("Please enter size of an Array: ");
    scanf("%d", &n);

    for (i=0; i<n; i++) {
        printf("Please enter element of array %d: ", i);
        scanf("%d", &arr[i]);
    }

    printf("Ans element of array: ");
    for (i=0; i<n; i++) {
        if (arr[i] %2 == 1) {
            printf("%d ", arr[i]);
        }
    }

    return 0;
}
```

Output:-

```
Please enter size of an Array: 4
Please enter element of array 0: 3
Please enter element of array 1: 6
Please enter element of array 2: 16
Please enter element of array 3: 1
Ans element of array: 3 1
```

5. Write a C program to print all element that are divisible by 3 from dynamic array.

```
#include<stdio.h>

int main() {
    int arr[100], n, i;

    printf("Please enter size of an Array: ");
    scanf("%d", &n);

    for (i=0; i<n; i++) {
        printf("Please enter element of array %d: ",i);
        scanf("%d", &arr[i]);
    }

    printf("Ans element of array: ");
    for (i=0; i<n; i++) {
        if (arr[i] %3 == 0) {
            printf("%d ", arr[i]);
        }
    }

    return 0;
}
```

Output:-

```
Please enter size of an Array: 5
Please enter element of array 0: 42
Please enter element of array 1: 1
Please enter element of array 2: 3
Please enter element of array 3: 9
Please enter element of array 4: 27
Ans element of array: 42 3 9 27
```

6. Write a C program to find max element from an dynamic array.

```
#include<stdio.h>

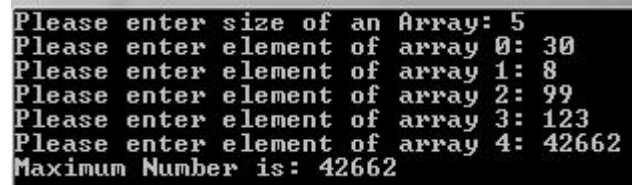
int main() {
    int arr[100], n, i, max = 0;

    printf("Please enter size of an Array: ");
    scanf("%d", &n);

    for (i=0; i<n; i++) {
        printf("Please enter element of array %d: ",i);
        scanf("%d", &arr[i]);
    }
}
```

```
        for (i=0; i<n; i++) {  
            if (arr[i] > max) {  
                max = arr[i];  
            }  
        }  
  
        printf("Maximum Number is: %d", max);  
  
        return 0;  
    }
```

Output:-



```
Please enter size of an Array: 5  
Please enter element of array 0: 30  
Please enter element of array 1: 8  
Please enter element of array 2: 99  
Please enter element of array 3: 123  
Please enter element of array 4: 42662  
Maximum Number is: 42662
```