

lab-2

1) Dynamic memory allocation program

calculate sum of dynamically allocated memory using malloc().

```
#include <stdio.h>
#include <stdlib.h>
int main() {
    int n, i, *ptr, sum = 0;
    printf("Enter the number of elements\n");
    scanf("%d", &n);
    ptr = (int *) malloc(n * sizeof(int));
    if (ptr == NULL) {
        printf("Error! memory not allocated");
        exit(0);
    }
    printf("Enter elements:");
    for (i = 0; i < n; i++) {
        scanf("%d", ptr + i);
        sum += *(ptr + i);
    }
    printf("sum = %d", sum);
    free(ptr);
    return 0;
}
```

O/P

Enter the number of elements : 3
enter elements: 12 23 53
sum = 88