## SUM OF SUBSETS:

## PROGRAM:

```
#include <conio.h>
int count, w[10], d, x[10];
void subset(int cs, int k, int r)
   int i;
       printf("\nSubset solution = %d\n", ++count);
               printf("%d ", w[i]);
       subset(cs + w[k], k + 1, r - w[k]);
       subset(cs, k + 1, r - w[k]);
roid main()
   printf("Enter the number of elements: ");
   printf("Enter the elements in ascending order\n");
       scanf("%d", &w[i]);
   printf("Enter the required sum\n");
   scanf("%d", &d);
       sum += w[i];
   if (sum < d)
       printf("No solution exists\n");
   printf("The solution is:\n");
```

```
count = 0;
subset(0, 0, sum);
}
```

## **OUTPUT**:

```
User@PRATHIKSHA /c/ada lab
$ cd "/c/ada lab/" && gcc sum_of_subsets.c -o sum_of_subsets && "/c/ada lab/"sum_of_subsets
Enter the number of elements: 5
Enter the elements in ascending order
1 2 5 6 8
Enter the required sum
9
The solution is:

Subset solution = 1
1 2 6
Subset solution = 2
1 8
```