PROGRAM:-

```
#include<stdio.h>
int count,w[10],d,x[10];
 void subset(int cs, int k, int r)
        int i;
       x[k]=1;
       if(cs+w[k]==d)
        printf("\nSubset solution = %d\n", ++count);
       for(i=0;i<=k;i++)
         if(x[i]==1)
        printf("%d", w[i]);
else
    if(cs+w[k]+w[k+1] <= d)
    subset(cs+w[k], k+1, r-w[k]);
    if((cs+r-w[k])=d) && (cs+w[k+1])<=d)
      x[k]=0;
       subset(cs,k+1,r-w[k]);
void main()
  int sum=0,i,n;
        itf("Enter the number of elements\n");
```

```
printf("Enter the number of elements\n");
   scanf("%d", &n);
   printf("Enter the elements in ascending order\n");
for(i=0;i<n;i++)
  scanf("%d", &w[i]);
  printf("Enter the required sum\n");
  scanf("%d", &d);
for(i=0;i<n;i++)</pre>
 sum+=w[i];
    if(sum<d)</pre>
       printf("No solution exists\n");
       return;
  printf("The solution is\n");
  count=0;
  subset(0,0,sum);
  getch();
```

OUTPUT:-

```
Enter the number of elements
4
Enter the elements in ascending order
10 20 30 40
Enter the required sum
50
The solution is

Subset solution = 1
1040
Subset solution = 2
2030
...Program finished with exit code 0
Press ENTER to exit console.
```