

20BCS042 MOHD ADIL

PROGRAM 10:

```
#include <stdio.h>
#define max __INT_MAX__

int main()
{
    int n;
    printf("Enter size of an Array -> ");
    scanf("%d", &n);
    printf("Enter Elements -> ");
    int arr[n];
    for (int i = 0; i < n; i++)
    {
        scanf("%d", &arr[i]);
    }
    int sum = max; //initialising sum with max value of int
    int temp;
    for (int i = 1; i <= n; i++) //grouping no. of elements
    {
        for (int j = 0; j <= n - i; j++) //iterating through these
        continuous groups
        {
            temp = 0;
            for (int k = j; k < j + i; k++) //iterating through
            elements of particular group
            {
                temp += arr[k];
            }
            if (temp <= sum)
            {
                sum = temp; //using minimum sum
            }
        }
    }
    printf("\nMinimum sum -> %d\n\n", sum);
    return 0;
}
```

OUTPUT:

```
PS C:\Users\aadil\Desktop\CSE\clab> cd "c:\Users\aadil\Desktop\CSE\clab\" ;  
if ($?) { .\program10 }  
Enter size of an Array -> 6  
Enter Elements -> -5 -3 13 -4 -2 -2
```

Minimum sum -> -8

```
PS C:\Users\aadil\Desktop\CSE\clab> cd "c:\Users\aadil\Desktop\CSE\clab\" ;  
if ($?) { .\program10 }  
Enter size of an Array -> 6  
Enter Elements -> -5 -3 3 -4 -2 -2
```

Minimum sum -> -13

```
PS C:\Users\aadil\Desktop\CSE\clab> █
```