

## Logic Building Assignment : 16

**1. Accept N numbers from user and return difference between summation of even elements and summation of odd elements.**

Input : N : 6

Elements : 85 66 3 80 93 88

Output : 53 (234 - 181)

Program Layout :

```
#include<stdio.h>

int Difference(int Arr[], int iLength)
{
    // Logic
}

int main()
{
    int iSize = 0,iRet = 0,iCnt = 0;
    int *p = NULL;

    printf("Enter number of elements");
    scanf("%d",&iSize);

    p = (int *)malloc(iSize * sizeof(int));

    if(p == NULL)
    {
        printf("Unable to allocate memory");
        return -1;
    }

    printf("Enter %d elements ",iLength);

    for(iCnt = 0;i<iLength; iCnt++)
    {
        printf("Enter element : %d",iCnt+1);
        scanf("%d",&p[iCnt]);
    }

    iRet = Difference(p, iSize);
```

```
printf("Result is %d",iRet);

free(p);

return 0;
}
```

## 2. Accept N numbers from user and display all such elements which are divisible by 5.

Input :     N :           6

Elements : 85   66   3   80   93   88

Output :   85   80

Program Layout :

```
#include<stdio.h>

void Display(int Arr[], int iLength)
{
    // Logic
}

int main()
{
    int iSize = 0,iRet = 0,iCnt = 0;
    int *p = NULL;

    printf("Enter number of elements");
    scanf("%d",&iSize);

    p = (int *)malloc(iSize * sizeof(int));

    if(p == NULL)
    {
        printf("Unable to allocate memory");
        return -1;
    }

    printf("Enter %d elements ",iLength);

    for(iCnt = 0;iCnt<iLength; iCnt++)
    {
        printf("Enter element : %d",iCnt+1);
```

```
        scanf("%d",&p[iCnt]);  
    }  
  
    Display(p, iSize);  
  
    free(p);  
  
    return 0;  
}
```

### 3. Accept N numbers from user and display all such elements which are even and divisible by 5.

Input :     N :         6

Elements : 85    66    3    80    93    88

Output :    80

Program Layout :

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

```
void Display(int Arr[], int iLength)  
{  
    // Logic  
}
```

```
int main()  
{  
    int iSize = 0,iRet = 0,iCnt = 0;  
    int *p = NULL;  
  
    printf("Enter number of elements");  
    scanf("%d",&iSize);  
  
    p = (int *)malloc(iSize * sizeof(int));  
  
    if(p == NULL)  
    {  
        printf("Unable to allocate memory");  
        return -1;  
    }  
  
    printf("Enter %d elements ",iLength);  
  
    for(iCnt = 0;iCnt<iLength; iCnt++)
```

```
{
    printf("Enter element : %d",iCnt+1);
    scanf("%d",&p[iCnt]);
}

Display(p, iSize);

free(p);

return 0;
}
```

#### 4. Accept N numbers from user and display all such elements which are divisible by 3 and 5.

Input :     N :           6

Elements : 85    66    3    15    93    88

Output :   15

Program Layout :

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

```
void Display(int Arr[], int iLength)
{
    // Logic
}
```

```
int main()
{
    int iSize = 0,iRet = 0,iCnt = 0;
    int *p = NULL;

    printf("Enter number of elements");
    scanf("%d",&iSize);

    p = (int *)malloc(iSize * sizeof(int));

    if(p == NULL)
    {
        printf("Unable to allocate memory");
        return -1;
    }

    printf("Enter %d elements ",iLength);
```

```
for(iCnt = 0;iCnt<iLength; iCnt++)
{
    printf("Enter element : %d",iCnt+1);
    scanf("%d",&p[iCnt]);
}

Display(p, iSize);

free(p);

return 0;
}
```

### 5. Accept N numbers from user and display all such elements which are multiples of 11.

Input :     N :            6

         Elements : 85    66    3    55    93    88

Output :   66    55    88

Program Layout :

```
#include<stdio.h>

void Display(int Arr[], int iLength)
{
    // Logic
}

int main()
{
    int iSize = 0,iRet = 0,iCnt = 0;
    int *p = NULL;

    printf("Enter number of elements");
    scanf("%d",&iSize);

    p = (int *)malloc(iSize * sizeof(int));

    if(p == NULL)
    {
        printf("Unable to allocate memory");
        return -1;
    }
}
```

```
printf("Enter %d elements ",iLength);

for(iCnt = 0;iCnt<iLength; iCnt++)
{
    printf("Enter element : %d",iCnt+1);
    scanf("%d",&p[iCnt]);
}

Display(p, iSize);

free(p);

return 0;

}
```

