

## Assignment-9

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

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

int Difference(int Arr[],int iLength)
{
    int iCnt = 0;
    int iSum1 = 0;
    int iSum2 = 0;
    int iDiff = 0;

    for(iCnt = 0 ; iCnt < iLength; iCnt++)
    {
        if((Arr[iCnt] % 2) == 0)
        {
            iSum1= iSum1 + Arr[iCnt];
        }
        if((Arr[iCnt] % 2) != 0)
        {
            iSum2 = iSum2 + Arr[iCnt];
        }

        iDiff = iSum1 -iSum2 ;
    }

    return iDiff;
}

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

    printf("Enter number of Elements : \n");
    scanf("%d",&iSize);

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

    if(p == NULL)
    {
        printf("Unable to allocate memory");
        return -1;
    }
    printf("Enter the Elements : \n");
```

```

for(iCnt = 0; iCnt < iSize; iCnt++)
{
    scanf("%d",&p[iCnt]);
}

printf("Elements of Array are : \n");

for(iCnt = 0; iCnt < iSize; iCnt++)
{
    printf("%d\t",p[iCnt]);
}
printf("\n");

iRet = Difference(p, iSize);

printf("Result is %d \n",iRet);

free(p);


return 0;
}

```

## OUTPUT :

gcc A9Program1.c -o Myexe

### 1 ./Myexe

Enter number of Elements :

6

Enter the Elements :

85 66 3 80 93 88

Elements of Array are :

85    66    3    80    93    88

Result is 53

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

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

void Display(int Arr[],int iLenght)
{
    int iCnt = 0;
    for(iCnt = 0; iCnt < iLenght; iCnt++)
    {
        if((Arr[iCnt] % 5) == 0)
        {
            printf("%d \n", Arr[iCnt]);
        }
    }
}

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

    printf("Enter number of Elements : \n");
    scanf("%d",&iSize);

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

    printf("Enter the Elements : \n");

    for(iCnt = 0; iCnt < iSize; iCnt++)
    {
        scanf("%d",&p[iCnt]);
    }
    Display(p,iSize);

    free(p);

    return 0;
}
```

## OUTPUT :

```
gcc A9Program2.c -o Myexe
```

```
1 ./Myexe
```

```
Enter number of Elements :
```

```
6
```

```
Enter the Elements :
```

```
85 66 3 80 93 88
```

```
85 80
```

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

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

void Display(int Arr[],int iLenght)
{
    int iCnt = 0;
    for(iCnt = 0; iCnt < iLenght; iCnt++)
    {
        if((Arr[iCnt] % 2) == 0)
        {
            if((Arr[iCnt] % 5) == 0)
            {
                printf("%d \n", Arr[iCnt]);
            }
        }
    }
}

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

    printf("Enter number of Elements : \n");
    scanf("%d",&iSize);

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

    printf("Enter the Elements : \n");

    for(iCnt = 0; iCnt < iSize; iCnt++)
    {
        scanf("%d",&p[iCnt]);
    }
    Display(p,iSize);

    free(p);

    return 0;
}
```

## **OUTPUT :**

```
gcc A9Program3.c -o Myexe
```

### **1 ./Myexe**

Enter number of Elements :

6

Enter the Elements :

85 66 3 80 93 88

80

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

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

void Display(int Arr[],int iLenght)
{
    int iCnt = 0;
    for(iCnt = 0; iCnt < iLenght; iCnt++)
    {
        if(((Arr[iCnt] % 3) == 0) && ((Arr[iCnt] % 5) == 0))
        {

            printf("%d \n", Arr[iCnt]);

        }

    }
}

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

    printf("Enter number of Elements : \n");
    scanf("%d",&iSize);

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

    printf("Enter the Elements : \n");

    for(iCnt = 0; iCnt < iSize; iCnt++)
    {
        scanf("%d",&p[iCnt]);
    }
    Display(p,iSize);

    free(p);

    return 0;
}
```

## **OUTPUT :**

```
gcc A9Program4.c -o Myexe
```

### **1 ./Myexe**

Enter number of Elements :

6

Enter the Elements :

85 66 3 15 93 88

15



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

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

void Display(int Arr[],int iLenght)
{
    int iCnt = 0;

    for(iCnt = 0; iCnt < iLenght; iCnt++)
    {
        if((Arr[iCnt] % 11) == 0 )
        {
            printf("%d \n",Arr[iCnt]);
        }
    }
}

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

    printf("Enter number of Elements : \n");
    scanf("%d",&iSize);

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

    printf("Enter the Elements : \n");

    for(iCnt = 0; iCnt < iSize; iCnt++)
    {
        scanf("%d",&p[iCnt]);
    }
    Display(p,iSize);

    free(p);

    return 0;
}
```

**OUTPUT :**

gcc A9Program5.c -o Myexe

**1 ./Myexe**

Enter number of Elements :

6

Enter the Elements :

85 66 3 55 93 88

66

55

88