Logic Building Assignment: 14

1. Accept N numbers from user and return frequency of even numbers.

```
Input: N:
                      6
          Elements: 85 66 3 80 93 88
Output: 3
Program Layout:
#include<stdio.h>
int CountEven(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++)</pre>
           printf("Enter element : %d",iCnt+1);
           scanf("%d",&p[iCnt]);
     iRet = CountEven(p, iSize);
```

```
printf("Result is %d",iRet);
free(p);
return 0;
}
```

2. Accept N numbers from user and return difference between frequency of even number and odd numbers.

90

```
N:
Input:
           Elements:85 66 3
                                         80 93 88
Output: 1 (4-3)
Program Layout:
#include<stdio.h>
Int Frequency(int Arr[], int iLength)
      // Logic
}
int main()
{
     int iSize = 0,iRet = 0,iCnt = 0, iRet = 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++)</pre>
           printf("Enter element : %d",iCnt+1);
scanf("%d",&p[iCnt]);
```

```
iRet = Frequency(p, iSize);
     printf("%d",iRet);
     free(p);
     return 0;
3. Accept N numbers from user check whether that numbers contains 11 in
Input: N:
          Elements: 85 66 11 80 93 88
Output: 11 is present
Input:
          N:
                    6
                                        93 88
          Elements:85
                         66 3
                                    80
Output: 11 is absent
Program Layout:
#include<stdio.h>
#define TRUE 1
#define FALSE 0
typedef int BOOL;
BOOL Check(int Arr[], int iLength)
     // Logic
}
int main()
    int iSize = 0,iRet = 0,iCnt = 0;
int *p = NULL;
BOOL bRet = FALSE;
     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]);
}
bRet = Check(p, iSize);
if(bRet == TRUE)
{
      printf("11 is present");
}
else
{
     printf("11 is absent");
free(p);
return 0;
```

4. Accept N numbers from user and return frequency of 11 form it.

Output: 2

```
Program Layout:
#include<stdio.h>
int Frequency(int Arr[], int iLength)
{
     // Logic
}
int main()
{
     int iSize = 0,iRet = 0,iCnt = 0, iRet = 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]);
     iRet = Frequency(p, iSize);
     printf("%d",iRet);
     free(p);
     return 0;
}
5. Accept N numbers from user and accept one another number as NO ,
return frequency of NO form it.
```

Input:

N:

6

```
NO:
                     66
          Elements: 85 66 3
                                    66 93 88
Output: 2
Input:
          N:
                     6
          NO:
                     12
          Elements: 85 11 3 15 11 111
Output: 0
Program Layout:
#include<stdio.h>
int Frequency(int Arr[], int iLength, int iNo)
     // Logic
}
int main()
     int iSize = 0,iRet = 0,iCnt = 0, iRet = 0, iValue = 0; int *p = NULL;
     printf("Enter number of elements");
     scanf("%d",&iSize);
     printf("Enter the number");
     scanf("%d",&iValue);
     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]);
     }
    iRet = Frequency(p, iSize,iValue);
    printf("%d",iRet);
     free(p);
     return 0;
}
```