1. Accept N number from user and return the largest number.

```
#include<stdio.h>
#include<stdlib.h>
int Maximum(int Arr[],int iLength )
  int iCnt = 0;
  int iLargest = Arr[iCnt];
    for(iCnt = 1; iCnt < iLength; iCnt++)</pre>
       if(iLargest < Arr[iCnt])</pre>
         iLargest = Arr[iCnt];
        return iLargest;
}
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));
  printf("Enter the Elements :\n");
```

```
for(iCnt = 0; iCnt < iSize; iCnt++)</pre>
    scanf("%d",&p[iCnt]);
  }
  iRet = Maximum(p , iSize );
  printf("Lagest Number is %d \n",iRet);
  free(p);
  return 0;
}
OUTPUT:
gcc A12Program1.c -o Myexe
```

1./Myexe

Enter number of Elements: Enter the Elements: 85 66 3 66 93 88 Lagest Number is 93

1.Accept N number from user and return the smallest number..

```
#include<stdio.h>
#include<stdlib.h>
int Minimum(int Arr[],int iLength )
  int iCnt = 0;
  int iSmallest = Arr[iCnt];
    for(iCnt = 1; iCnt < iLength; iCnt++)</pre>
       if(iSmallest > Arr[iCnt])
         iSmallest = Arr[iCnt];
    }
     return iSmallest;
}
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));
  printf("Enter the Elements :\n");
```

```
for(iCnt = 0; iCnt < iSize; iCnt++)
{
    scanf("%d",&p[iCnt]);
}
iRet = Minimum(p , iSize );
printf("Smallest Number is %d \n",iRet);

free(p);
return 0;
}

OUTPUT:
gcc A12Program2.c -o Myexe</pre>
```

1./Myexe

Enter number of Elements: 6 Enter the Elements: 85 66 3 66 93 88 Smallest Number is 3

3.Accept N numbers from user and return the difference between largest and smallest number.

```
#include<stdio.h>
#include<stdlib.h>
int Difference(int Arr[],int iLength )
  int iCnt = 0;
  int iLargest = Arr[iCnt];
  int iSmallest = Arr[iCnt];
 int iDifference = 0;
  for(iCnt = 1; iCnt < iLength; iCnt++)</pre>
       if(iLargest < Arr[iCnt])</pre>
         iLargest = Arr[iCnt];
      else if(iSmallest > Arr[iCnt])
         iSmallest = Arr[iCnt];
       iDifference = iLargest - iSmallest;
     }
     return iDifference;
}
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));
  printf("Enter the Elements :\n");
  for(iCnt = 0; iCnt < iSize; iCnt++)</pre>
    scanf("%d",&p[iCnt]);
  }
  iRet = Difference(p , iSize );
  printf(" Difference is %d \n",iRet);
  free(p);
  return 0;
}
OUTPUT:
gcc A12Program3.c -o Myexe
1./Myexe
Enter number of Elements:
Enter the Elements:
85 66 3 66 93 88
Difference is 90
```

4.Accept N number from user and display all such numbers which contains 3 digits in it.

```
#include<stdio.h>
#include<stdlib.h>
void Digits(int Arr[],int iLength)
  int iCnt = 0;
  for(iCnt = 0; iCnt < iLength; iCnt++)</pre>
     if(Arr[iCnt] > 99 && Arr[iCnt] <1000)
       printf("%d \t",Arr[iCnt]);
  }
   printf("\n");
int main()
  int iSize = 0;
  int *p = NULL;
  int iCnt = 0;
  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++)</pre>
     scanf("%d",&p[iCnt]);
  }
  Digits(p, iSize);
```

```
free(p);
  return 0;
}
OUTPUT:
```

gcc A12Program4.c -o Myexe

1 ./Myexe Enter number of Elements : Enter the Elements: 8225 665 3 76 953 858 665 953 858

5.Accept N numbers from user and display summation of digits of each number.

```
#include<stdio.h>
#include<stdlib.h>
void DigitsSum(int Arr[],int iLength)
  int iCnt = 0;
  int sum = 0;
  for(iCnt = 0; iCnt < iLength; iCnt++)</pre>
   sum = DigitSum(Arr[iCnt]);
   printf("%d\t",sum);
  printf("\n");
int DigitSum(int iNo)
  int iSum = 0;
  int iDigit = 0;
  while(iNo!=0)
     iDigit = iNo % 10;
     iSum = iSum + iDigit;
     iNo = iNo/10;
  }
  return iSum;
}
int main()
  int iSize = 0;
  int *p = NULL;
  int iCnt = 0;
  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++)</pre>
    scanf("%d",&p[iCnt]);
  }
  DigitsSum(p, iSize);
  free(p);
  return 0;
}
OUTPUT:
gcc A12Program5.c -o Myexe
1./Myexe
Enter number of Elements:
Enter the Elements:
8225 665 3 76 953 858
     17 3
                 13
                      17
                             21
```