Assignment-8

1. Write a program which accept number from user and return the count of even digits.

```
#include<stdio.h>
int CountEven(int iNo)
  int iDigit = 0;
  int iCount = 0;
  if(iNo < 0)
    iNo = -iNo;
  while(iNo != 0)
    iDigit = iNo % 10;
    if((iDigit \% 2) == 0)
       iCount++;
    iNo = iNo / 10;
  }
   return iCount;
}
int main()
  int iValue = 0;
  int iRet = 0;
  printf("Enter Number : \n");
  scanf("%d",&iValue);
  iRet = CountEven(iValue);
  printf("%d \n",iRet);
  return 0;
}
```

gcc A8program1.c -o Myexe

1 ./Myexe

Enter Number :

2395

1

2 ./Myexe

Enter Number:

1018

2

3 ./Myexe Enter Number :

-1018

2

4 ./MyexeEnter Number :

8462

2. Write a program which accept number from user and return the count of odd digits.

```
#include<stdio.h>
int CountOdd(int iNo)
  int iDigit = 0;
  int iCount = 0;
  if(iNo < 0)
    iNo = -iNo;
  while(iNo != 0)
    iDigit = iNo % 10;
    if((iDigit % 2) != 0)
       iCount++;
    iNo = iNo / 10;
  }
   return iCount;
}
int main()
  int iValue = 0;
  int iRet = 0;
  printf("Enter Number : \n");
  scanf("%d",&iValue);
  iRet = CountOdd(iValue);
  printf("%d \n",iRet);
  return 0;
}
```

gcc A8program2.c -o Myexe

1 ./Myexe Enter Number :

2395

3

2 ./Myexe Enter Number :

1018

2

3 ./Myexe Enter Number :

-1018

2

4 ./Myexe

Enter Number :

8462

3. Write a program which accept number from user and return the count of digits in between 3 and 7.

```
#include<stdio.h>
int CountRange(int iNo)
  int iDigit = 0;
  int iCount = 0;
  while(iNo != 0)
    iDigit = iNo % 10;
    if((iDigit > 3) \&\& (iDigit < 7))
       iCount++;
     iNo = iNo / 10;
   return iCount;
}
int main()
  int iValue = 0;
  int iRet = 0;
  printf("Enter Number : \n");
  scanf("%d",&iValue);
  iRet =CountRange(iValue);
  printf("%d \n",iRet);
  return 0;
}
```

gcc A8program3.c -o Myexe

1 ./Myexe

Enter Number :

2395

1

2 ./Myexe Enter Number :

1018

0

3 ./Myexe

Enter Number :

4521

2

4 ./Myexe

Enter Number:

9922

5. Write a program which accept number from user and return difference between summation of even digits and summation of odd digits.

```
#include<stdio.h>
int CountDiff(int iNo)
  int iDigit = 0;
  int iSum1 = 0;
  int iSum2 = 0;
  int iResult = 0;
  while(iNo != 0)
     iDigit = iNo % 10;
     if((iDigit \% 2) == 0)
       iSum1 = iSum1 + iDigit;
     if((iDigit % 2) != 0)
       iSum2 = iSum2 + iDigit;
     iResult = iSum1 - iSum2;
     iNo = iNo / 10;
  }
   return iResult;
}
int main()
  int iValue = 0;
  int iRet = 0;
  printf("Enter Number : \n");
  scanf("%d",&iValue);
  iRet = CountDiff(iValue);
  printf("%d \n",iRet);
  return 0;
}
```

gcc A8program5.c -o Myexe

1 ./MyexeEnter Number :

2395

-15

2 ./Myexe

Enter Number:

1018

6

3./Myexe

Enter Number:

8440

16

4 ./Myexe

Enter Number:

5733

-18

4. Write a program which accept number from user and return multiplication of all digits.

```
#include<stdio.h>
int MultDigits(int iNo)
  int iDigit = 0;
  int iMul = 1;
  while(iNo != 0)
     iDigit = iNo \% 10;
     if(iDigit!=0){
       iMul = iMul * iDigit;
     iNo = iNo / 10;
   return iMul;
}
int main()
  int iValue = 0;
  int iRet = 0;
  printf("Enter Number : \n");
  scanf("%d",&iValue);
  iRet =MultDigits(iValue);
  printf("%d \n",iRet);
  return 0;
```

gcc A8program4.c -o Myexe

1./Myexe

Enter Number : 2395

270

2 ./Myexe

Enter Number:

1018

8

3 ./Myexe Enter Number :

9440

144

4 ./Myexe Enter Number :

922432