

Assignment-7

1. Write a program which accept number from user and display its digits in reverse order.

```
#include<stdio.h>
void DisplayDigit(int iNo)
{
    int iDigit = 0;

    if(iNo < 0)
    {
        iNo = -iNo;
    }
    while(iNo != 0)
    {
        iDigit = iNo % 10;
        printf("%d\n",iDigit);
        iNo = iNo / 10;
    }
}

int main()
{
    int iValue = 0;

    printf("Enter Number : \n");
    scanf("%d",&iValue);

    DisplayDigit(iValue);

    return 0;
}
```

OutPut :

gcc A7program1.c -o Myexe

1 ./Myexe

Enter Number :

2395

5

9

3

2

2 ./Myexe

Enter Number :

1018

8

1

0

1

3 ./Myexe

Enter Number :

-1018

8

1

0

1

4 ./Myexe

Enter Number :

9000

0

0

0

9

2. Write a program which accept number from user and check whether it contains 0 in it or not.

```
#include<stdio.h>
#define TRUE 1
#define FALSE 0

typedef int BOOL;
BOOL CheckZero(int iNo)
{
    int iDigit = 0;

    while(iNo != 0)
    {
        iDigit = iNo % 10;
        if(iDigit == 0)
        {
            break;
        }
        iNo = iNo / 10;
    }
    if(iDigit == 0)
    {
        return TRUE;
    }
    else
    {
        return FALSE;
    }
}

int main()
{
    int iValue = 0;
    BOOL bRet = FALSE;

    printf("Enter Number : \n");
    scanf("%d",&iValue);

    bRet = CheckZero(iValue);

    if(bRet == TRUE)
    {
        printf("It contains zero \n");
    }
}
```

```
}  
else  
{  
    printf("There is no zero \n");  
}  
  
    return 0;  
}
```

OutPut :

gcc A7program2.c -o Myexe

1 ./Myexe

Enter Number :

2395

There is no zero

2 ./Myexe

Enter Number :

1018

It contains zero

3 ./Myexe

Enter Number :

9000

It contains zero

4 ./Myexe

Enter Number :

10687

It contains zero

3. Write a program which accept number from user and count frequency of 2 in it.

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

```
int CountTwo(int iNo)
{
    int iDigit = 0;
    int iCount = 0;

    while(iNo != 0)
    {
        iDigit = iNo % 10;

        if(iDigit == 2)
        {
            iCount++;
        }
        iNo = iNo / 10;
    }
    return iCount;
}
```

```
int main()
{
    int iValue = 0;
    int iRet = 0;

    printf("Enter Number : \n");
    scanf("%d",&iValue);

    iRet = CountTwo(iValue);

    printf("%d \n",iRet);
    return 0;
}
```

OutPut :

gcc A7program3.c -o Myexe

1 ./Myexe

Enter Number :

2395

1

2 ./Myexe

Enter Number :

1018

0

3 ./Myexe

Enter Number :

9000

0

4 ./Myexe

Enter Number :

922432

3

4. Write a program which accept number from user and count frequency of 4 in it.

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

```
int CountFour(int iNo)
{
    int iDigit = 0;
    int iCount = 0;

    while(iNo != 0)
    {
        iDigit = iNo % 10;

        if(iDigit == 4)
        {
            iCount++;
        }
        iNo = iNo / 10;
    }
    return iCount;
}
```

```
int main()
{
    int iValue = 0;
    int iRet = 0;

    printf("Enter Number : \n");
    scanf("%d",&iValue);

    iRet = CountFour(iValue);

    printf("%d \n",iRet);
    return 0;
}
```

OutPut :

gcc A7program4.c -o Myexe

1 ./Myexe

Enter Number :

2395

0

2 ./Myexe

Enter Number :

1018

0

3 ./Myexe

Enter Number :

9440

2

4 ./Myexe

Enter Number :

922432

1

5. Write a program which accept number from user and count frequency of such a digits which are less than 6.

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

```
int Count(int iNo)
{
    int iDigit = 0;
    int iCount = 0;

    while(iNo != 0)
    {
        iDigit = iNo % 10;

        if(iDigit < 6)
        {
            iCount++;
        }
        iNo = iNo / 10;
    }
    return iCount;
}
```

```
int main()
{
    int iValue = 0;
    int iRet = 0;

    printf("Enter Number : \n");
    scanf("%d",&iValue);

    iRet = Count(iValue);

    printf("%d \n",iRet);
    return 0;
}
```

OutPut :

gcc A7program5.c -o Myexe

1 ./Myexe

Enter Number :

2395

3

2 ./Myexe

Enter Number :

1018

3

4 ./Myexe

Enter Number :

9440

3

5./Myexe

Enter Number :

96672

1