Assignment-4

1.Write a program which accept name from user and print that name.

```
#include<stdio.h>

int main()
{

   char Name[30];

   printf("Please enter full name: \n");


   fgets(Name, 30, stdin);


   printf("Your name is %s\n",Name);

}
```

output :

gcc A4Program1.c -o Myexe

1 **./Myexe**
Please enter full name:
Piyush khairnar
Your name is Piyush khairnar

2. Write a program which accept one number from user and check whether that number is greater than 100 or not.

```
#include<stdio.h>

typedef int Bool;
#define TRUE 1
#define FALSE 0
Bool ChkGreater(int iNo)
{
  if(iNo > 100)
   {
      return TRUE;
   }
   else
   {
      return FALSE;
   }
}

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

   printf("Please enter number : \n");
   scanf("%d",&iValue);

   bRet = ChkGreater(iValue);

   if(bRet == TRUE)
   {
      printf("Greater \n");
   }
   else
   {
      printf("Smaller \n");
   }

  return 0;


}
```

output :

gcc A4Program2.c -o Myexe

1 ./Myexe
Please enter number :
101
Greater

2 ./Myexe
Please enter number :
39
Smaller

3 Write a program which accept two numbers and check whether number are equal or not.

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

typedef int BOOL;

#define TRUE 1
#define FALSE 0

BOOL ChkEqual(int iNo1, int iNo2)
{


   if(iNo1 == iNo2)
   {
      return TRUE;
   }
   else
   {
      return FALSE;
   }

}
int main()
{
   int iValue1 = 0,iValue2 = 0;
   bool bRet = FALSE;

   printf("Please Enter Two Numbers : \n");
   scanf("%d %d",&iValue1,&iValue2);

   ;

   bRet = ChkEqual(iValue1,iValue2);

   if(bRet == TRUE)
   {
      printf("Equal \n");

   }
   else
   {
     printf("Not Equal \n");
```

```
    }

    return 0;
}
```

output :

gcc A4Program3.c -o Myexe

1 ./Myexe
Please Enter Two Numbers :
10 10
Equal

2 ./Myexe
Please Enter Two Numbers :
10 12
Not Equal

3 ./Myexe
Please Enter Two Numbers :
10 -10
Not Equal

4 .Write a program which accept three numbers and print its multiplication.

```
#include<stdio.h>

int Multiply(int iNo1,int iNo2,int iNo3)
{

    int Result = 0;


    if((iNo1 == 0) && (iNo2 == 0) && (iNo3 == 0))
    {

        return 0;
    }
    else if((iNo1 > 0) && (iNo2 > 0) && (iNo3 > 0)){

        Result = iNo1*iNo2*iNo3;
        return Result;
    }else if((iNo1 == 0) && (iNo2 > 0) && (iNo3 > 0)){
        Result=iNo2*iNo3;
        return Result;
    }
    else if((iNo1 > 0) && (iNo2 == 0) && (iNo3 > 0)){
        Result=iNo1*iNo3;
        return Result;
    }
     else if((iNo1 > 0) && (iNo2 > 0) && (iNo3 == 0)){
        Result=iNo1*iNo2;
        return Result;
    }
    else if((iNo1 > 0) && (iNo2 == 0) && (iNo3 == 0)){
        Result=iNo1;
        return Result;
    }
    else if((iNo1 == 0) && (iNo2 == 0) && (iNo3 > 0)){
        Result=iNo3;
        return Result;
    }
     else if((iNo1 == 0) && (iNo2 > 0) && (iNo3 == 0)){
        Result=iNo2;
        return Result;
    }
```

```
}



int main()
{
   int iValue1 = 0, iValue2 = 0, iValue3 = 0  ,iRet = 0;


    printf("Please Enter Three Numbers : \n");
    scanf("%d %d %d",&iValue1,&iValue2,&iValue3);

  iRet = Multiply(iValue1,iValue2,iValue3);


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

   return 0;

}
```

output :

```
 gcc A4Program4.c -o Myexe
```

1 ./Myexe
Please Enter Three Numbers :
5 4 7
140

2 ./Myexe
Please Enter Three Numbers :
5 0 7
35

3 ./Myexe
Please Enter Three Numbers :
5 0 0
5

4 ./Myexe
Please Enter Three Numbers :
0 0 0
0

5.Write a program which accept total marks & obtained marks from user and calculate percentage.

```
#include<stdio.h>

float Percentage( int Total, int Obtained)
{

   float fPercentage = 0.0f;

   if(Obtained == 0)
   {
     return 0.0;
   }

   fPercentage =(((float)Obtained / (float)Total) )* 100;

   return fPercentage;
}

int main()
{
    int iValue1 = 0, iValue2 = 0;

    float fRet = 0.0f;

   printf("Please Enter Total Marks : \n");
   scanf("%d",&iValue1);


   printf("Please Enter Obtained Marks : \n");
   scanf("%d",&iValue2);

   fRet = Percentage(iValue1,iValue2);

   printf("%f\n",fRet);

   return 0;


}
```

output :

gcc A4Program5.c -o Myexe

1 ./Myexe

```
Please Enter Total Marks :
1000
Please Enter Obtained Marks :
745
74.500000
```