Assignment-6

1. Write a program which accept number from user and if number is less than 50 then print small,if it is greater than 50 and less than 100 then print medium, if it is greater than 100 then print large.

```
#include<stdio.h>

void Number(int iNo)
{
   if(iNo < 50)
   {
      printf("Small \n");
   }

   else if((iNo >= 50)&&(iNo < 100))
   {
      printf("Medium \n");
   }
   else if(iNo >= 100)
   {
      printf("Large \n");
   }
}

int main()
{
   int iValue = 0;

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


   Number(iValue);



   return 0;
}
```

OutPut :

```
gcc A6Program1.c -o Myexe

1 ./Myexe
Enter Number :
75
Medium
```

2. Accept single digit number from user and print it into word.

```
#include<stdio.h>

void Display(int iNo)
{

    if(iNo < 0)
    {
        iNo = -iNo;
    }
   switch(iNo)
   {
case 0:
      printf("Zero\n");
      break;
case 1:
      printf("one\n");
      break;
case 2:
      printf("Two\n");
      break;
case 3:
      printf("Three\n");
      break;
case 4:
      printf("Four\n");
      break;
case 5:
      printf("Five\n");
      break;
case 6:
      printf("Six\n");
      break;
case 7:
      printf("Seven\n");
      break;
case 8:
      printf("Eight\n");
      break;
case 9:
      printf("Nine\n");
      break;
default:
      printf("invalid digit\nPlease try again ....\n");
      break;
    }
}

int main()
```

```
{
   int iValue = 0;

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

   Display(iValue);

   return 0;
}
```

OutPut :

```
 gcc A6Program2.c -o Myexe
```

1 ./Myexe

```
Enter Number :
9
Nine
```

2 ./Myexe

```
Enter Number :
-3
Three
```

3 ./Myexe

```
Enter Number :
12
invalid digit
Please try again ....
```

3.Write a program to find factorial of given number.

```
#include<stdio.h>

int Factorial(int iNo)
{
    int iCnt = 0;
    int iMul = 1;

    if(iNo < 0)
    {
      iNo = -iNo;
    }
    for(iCnt = iNo; iCnt >= 1; iCnt--)
    {
      iMul = iMul * iCnt;
    }

    return iMul;
}

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

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

  iRet = Factorial(iValue);

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


   return 0;
}
```

OutPut :
gcc A6Program3.c -o Myexe

1 ./Myexe
Enter Number :
5
120

2 ./Myexe
Enter Number :
-5
120

3 ./Myexe
Enter Number :
4
24

4. Write a Program which accept number from user and display its table.

```
#include<stdio.h>

void Table(int iNo)
{
   int iCnt = 0;
   int iResult = 0;

   if(iNo < 0)
   {
      iNo = -iNo;
   }

   for(iCnt = 1; iCnt <= 10; iCnt++)
   {
      iResult = (iNo * iCnt);
      printf("%d\t",iResult);
   }

        printf("\n");
}



int main()
{
   int iValue = 0;

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

   Table(iValue);

   return 0;
}
```

OutPut :

gcc A6Program4.c -o Myexe

1 ./Myexe
Enter Number :
2
2 4 6 8 10 12 14 16 18 20

2 ./Myexe
Enter Number :
5
5 10 15 20 25 30 35 40 45 50

3 ./Myexe
Enter Number :
-5
5 10 15 20 25 30 35 40 45 50

5.Write a Program which accept number from user and display its table in reverse.

```
#include<stdio.h>

void Table(int iNo)
{
   int iCnt = 0;
   int iResult = 0;

   if(iNo < 0)
   {
      iNo = -iNo;
   }

   for(iCnt = 10; iCnt >= 1; iCnt--)
   {
      iResult = (iNo * iCnt);
      printf("%d\t",iResult);
   }

        printf("\n");
}



int main()
{
   int iValue = 0;

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

   Table(iValue);

   return 0;
}
```

OutPut :

gcc A6Program5.c -o Myexe

1 ./Myexe
Enter Number :
2
20 18 16 14 12 10 8 6 4 2

2 ./Myexe
Enter Number :
5
50 45 40 35 30 25 20 15 10 5

3 ./Myexe
Enter Number :
-5
50 45 40 35 30 25 20 15 10 5