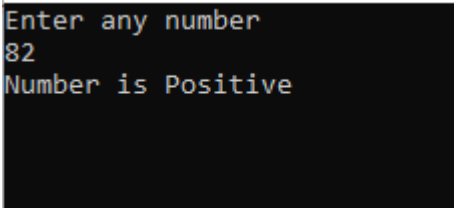
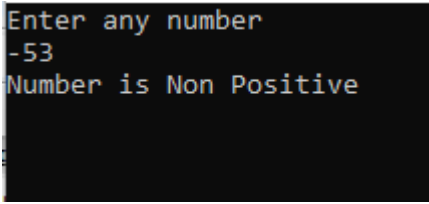


ASSIGNMENT 07

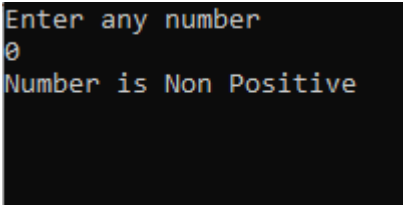
```
1. #include<stdio.h>
   #include<conio.h>
   int main()
   {
       int num;
       printf("Enter any number\n");
       scanf("%d",&num);
       if(num>0)
           printf("Number is Positive");
       if(num<=0)
           printf("Number is Non Positive");
       getch();
   }
```



Enter any number
82
Number is Positive



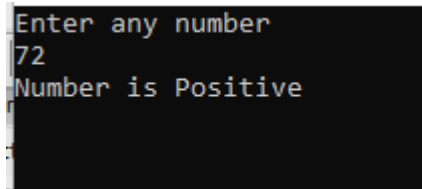
Enter any number
-53
Number is Non Positive



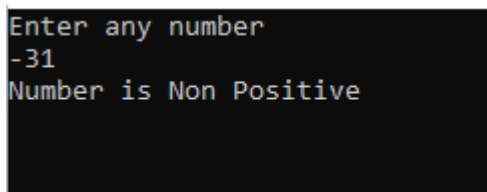
Enter any number
0
Number is Non Positive

OR

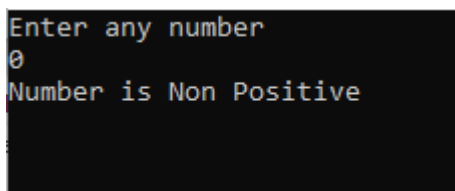
```
#include<stdio.h>
#include<conio.h>
int main()
{
    int num;
    printf("Enter any number\n");
    scanf("%d",&num);
    if(num>0)
        printf("Number is Positive");
    else
        printf("Number is Non Positive");
    getch();
}
```



```
Enter any number
72
Number is Positive
```

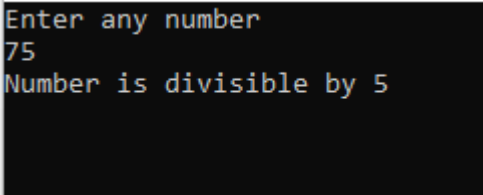


```
Enter any number
-31
Number is Non Positive
```

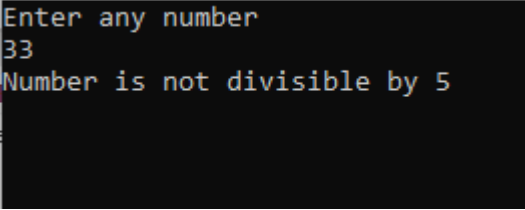


```
Enter any number
0
Number is Non Positive
```

```
2. #include<stdio.h>
#include<conio.h>
int main()
{
    int num;
    printf("Enter any number\n");
    scanf("%d",&num);
    if(num%5==0)
        printf("Number is divisible by 5");
    else
        printf("Number is not divisible by 5");
    getch();
}
```



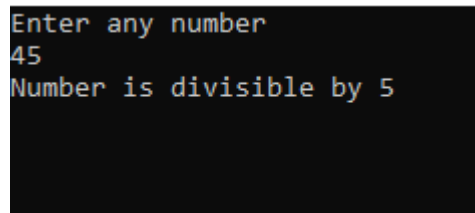
```
Enter any number
75
Number is divisible by 5
```



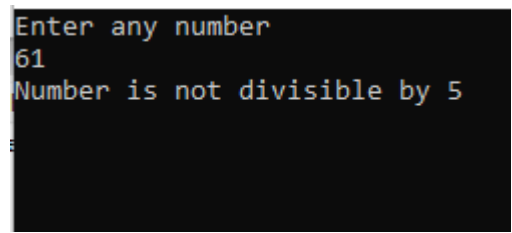
```
Enter any number
33
Number is not divisible by 5
```

OR

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int num;
    printf("Enter any number\n");
    scanf("%d",&num);
    if(num%5)
        printf("Number is not divisible by 5");
    else
        printf("Number is divisible by 5");
    getch();
}
```



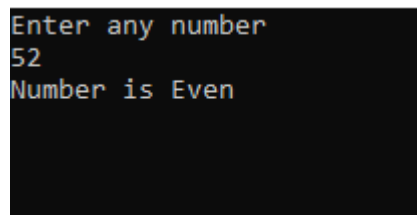
Enter any number
45
Number is divisible by 5

A screenshot of a terminal window with a black background. The text is displayed in a light blue/cyan monospaced font. It shows the prompt "Enter any number", the user input "45", and the program output "Number is divisible by 5".

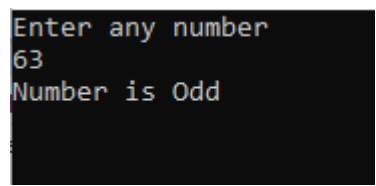
Enter any number
61
Number is not divisible by 5

A screenshot of a terminal window with a black background. The text is displayed in a light blue/cyan monospaced font. It shows the prompt "Enter any number", the user input "61", and the program output "Number is not divisible by 5".

```
3. #include<stdio.h>
#include<conio.h>
int main()
{
    int num;
    printf("Enter any number\n");
    scanf("%d",&num);
    if(num%2==0)
        printf("Number is Even");
    else
        printf("Number is Odd");
    getch();
}
```



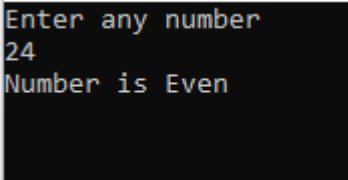
```
Enter any number
52
Number is Even
```



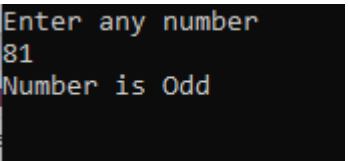
```
Enter any number
63
Number is Odd
```

OR

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int num;
    printf("Enter any number\n");
    scanf("%d",&num);
    if(num%2)
        printf("Number is Odd");
    else
        printf("Number is Even");
    getch();
}
```

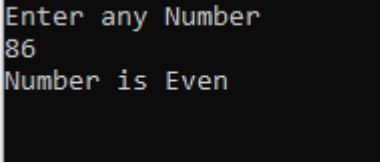


```
Enter any number
24
Number is Even
```

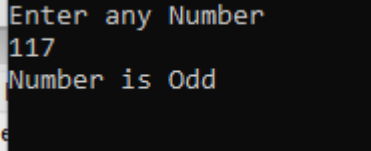


```
Enter any number
81
Number is Odd
```

```
4. #include<stdio.h>
#include<conio.h>
int main()
{
    int num;
    printf("Enter any Number\n");
    scanf("%d",&num);
    if(num&1)
        printf("Number is Odd");
    else
        printf("Number is Even");
    getch();
}
```

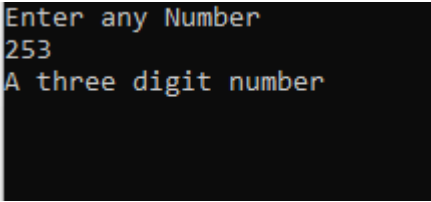


```
Enter any Number
86
Number is Even
```

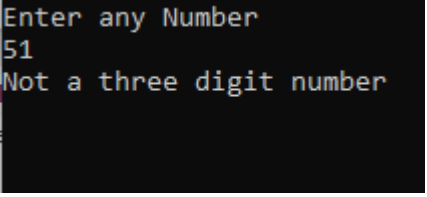


```
Enter any Number
117
Number is Odd
```

```
5. #include<stdio.h>
#include<conio.h>
int main()
{
    int num;
    printf("Enter any Number\n");
    scanf("%d",&num);
    if(num>=100 && num<=999)
        printf("A three digit number");
    else
        printf("Not a three digit number");
    getch();
}
```

A screenshot of a terminal window with a black background. It shows the program's output for the input 253. The text is as follows:

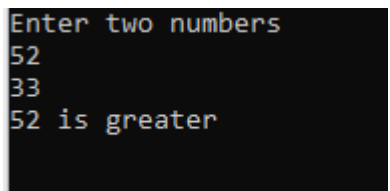
```
Enter any Number
253
A three digit number
```

A screenshot of a terminal window with a black background. It shows the program's output for the input 51. The text is as follows:

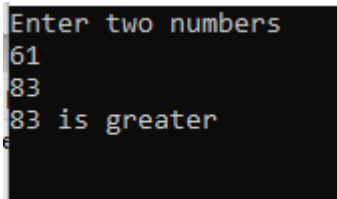
```
Enter any Number
51
Not a three digit number
```



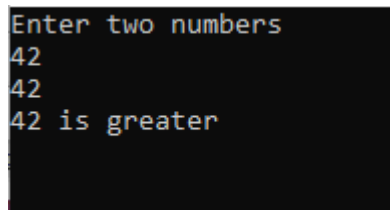
```
6. #include<stdio.h>
#include<conio.h>
int main()
{
    int num1,num2;
    printf("Enter two numbers\n");
    scanf("%d %d",&num1,&num2);
    if(num1>num2)
        printf("%d is greater",num1);
    else if(num2>num1)
        printf("%d is greater",num2);
    else
        printf("%d is greater",num1);
    getch();
}
```



```
Enter two numbers
52
33
52 is greater
```



```
Enter two numbers
61
83
83 is greater
```



```
Enter two numbers
42
42
42 is greater
```

```

7. #include<stdio.h>
   #include<conio.h>
   int main()
   {
       float CP,SP,profit,loss,profit_percent,loss_percent;
       printf("Enter the Cost Price and Selling Price of the
Product\n");
       scanf("%f %f",&CP,&SP);
       profit=SP-CP;
       loss=CP-SP;
       profit_percent=(profit/CP)*100;
       loss_percent=(loss/CP)*100;
       if(SP>CP)
       {
           printf("Profit = %f",profit);
           printf("\nProfit Percentage = %f",profit_percent);
       }
       else
       {
           printf("Loss = %f",loss);
           printf("\nLoss Percentage = %f",loss_percent);
       }
       getch();
   }

```

```

Enter the Cost Price and Selling Price of the Product
37
54
Profit = 17.000000
Profit Percentage = 45.945946

```

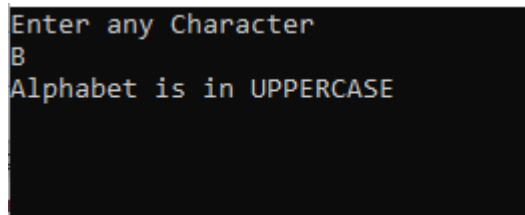
```
Enter the Cost Price and Selling Price of the Product
62
39
Loss = 23.000000
Loss Percentage = 37.096775
```

```
8. #include<stdio.h>
#include<conio.h>
int main()
{
    int mark1,mark2,mark3,mark4,mark5;
    printf("Enter the marks of five subjects\n");
    scanf("%d %d %d %d
%d",&mark1,&mark2,&mark3,&mark4,&mark5);
    if(mark1>=33 && mark2>=33 && mark3>=33 &&
mark4>=33 && mark5>=33)
        printf("Canditate has Passed the Examination");
    else
        printf("Canditate has Failed the Examination");
    getch();
}
```

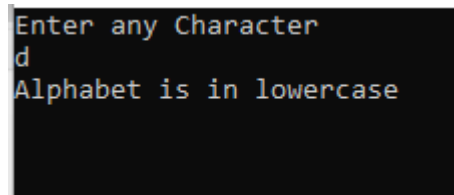
```
Enter the marks of five subjects
62
71
87
91
83
Canditate has Passed the Examination
```

```
Enter the marks of five subjects
31
23
45
67
89
Canditate has Failed the Examination
```

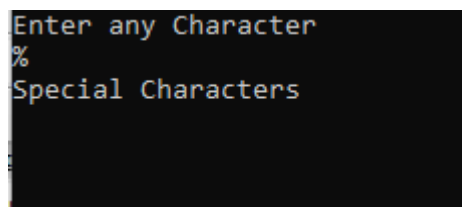
```
9. #include<stdio.h>
#include<conio.h>
int main()
{
    char ch;
    printf("Enter any Character\n");
    scanf("%c",&ch);
    if(ch>='A' && ch<='Z')
        printf("Alphabet is in UPPERCASE");
    else if(ch>='a' && ch<='z')
        printf("Alphabet is in lowercase");
    else
        printf("Special Characters");
    getch();
}
```



```
Enter any Character
B
Alphabet is in UPPERCASE
```



```
Enter any Character
d
Alphabet is in lowercase
```



```
Enter any Character
%
Special Characters
```

```

10.    #include<stdio.h>
        #include<conio.h>
int main()
{
    int age,amount,year;
    float rate=0.05,maturity;
    printf("Enter the age of the Client\n");
    scanf("%d",&age);

    if(age>=18 && age<25)
    {
        year=30;
        printf("Enter the amount of Investment\n");
        scanf("%d",&amount);

        if(amount>=10000 && amount<=100000)
        {
            printf("\nThe Policy Period is 30 Years\n");
            maturity=amount*(1+rate*year);
            printf("Maturity Amount = %f",maturity);
        }
        else
            printf("The Minimum Amount of Investment Should be
10000");
    }
    else if(age>=25 && age<40)
    {
        year=20;
        printf("Enter the amount of Investment\n");
        scanf("%d",&amount);

        if(amount>=10000 && amount<=100000)
        {
            printf("\nThe Policy Period is 20 Years\n");
            maturity=amount*(1+rate*year);

```

```

        printf("Maturity Amount = %f",maturity);
    }
    else
        printf("The Minimum Amount of Investment Should be
10000");

    }
    else if(age>=40 && age <=55)
    {
        year=10;
        printf("Enter the amount of Investment\n");
        scanf("%d",&amount);

        if(amount>=10000 && amount<=100000)
        {
            printf("\nThe Policy Period is 10 Years\n");
            maturity=amount*(1+rate*year);
            printf("Maturity Amount = %f",maturity);
        }
        else
            printf("The Minimum Amount of Investment Should be
10000");
    }
    else
        printf("The Policy is not applicable for given age group");

    getch();
}

```

```
Enter the age of the Client
24
Enter the amount of Investment
41000

The Policy Period is 30 Years
Maturity Amount = 102500.000000
```

```
Enter the age of the Client
15
The Policy is not applicable for given age group
```

```
Enter the age of the Client
31
Enter the amount of Investment
8000
The Minimum Amount of Investment Should be 10000
```