Expt 1: Conversion of Temperature

AIM

Convert the temperature in degree Celsius to Fahrenheit

ALGORITHM

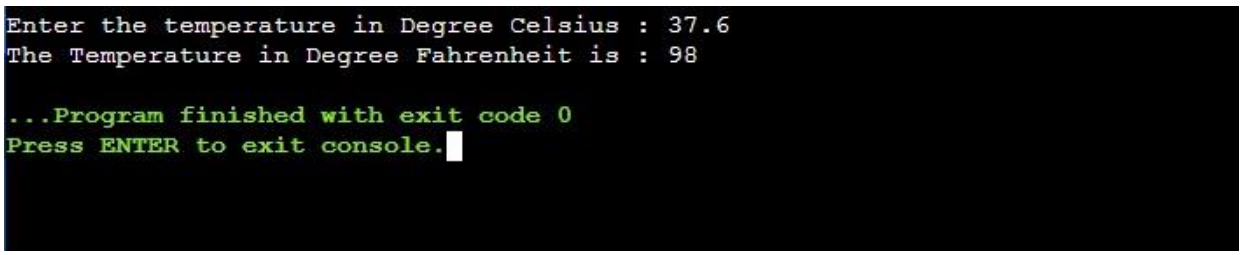
- Read the temperature in degree Celsius to variable C
- Calculate F using formula F = 9/5*C + 32
- Display C

SOURCE CODE

```
//*****************************************************************************
// Program name : Conversion.c
// Author : Anantha Krishnan R J
// Date Written :01/06/2021
// Date Compiled :01/06/2021
// Aim of the Program :To convert the temperature in degree Celsius to degree Fahrenheit
//*****************************************************************************
//*****************************************************************************
#include <stdio.h>
main()
{
   int C,F;
   printf("Enter the temperature in Degree Celsius : ");
   scanf("%d",&C);
   F = (1.8*C) + 32;
   printf("The Temperature in Degree Fahrenheit is : %d ",F);

}
```

OUTPUT


Enter the temperature in Degree Celsius : 37.6
The Temperature in Degree Fahrenheit is : 98
...Program finished with exit code 0
Press ENTER to exit console.

Expt 2: Find the largest of 3 numbers

AIM

To find the largest of three numbers

ALGORITHM

- Read 3 numbers A,B,C
- Assign Large = A
- Check if B > Large , if Yes Large = B
- Check if C > Large , if Yes Large = C
- Display the value of large as the largest number

SOURCE CODE

```
//*************************************************************************
// Program name :largestnumber.c
// Author :Anantha Krishnan R J
// Date Written :01/06/2021
// Date Compiled :01/06/2021
// Aim of the Program :To find the largest of three numbers entered by the user.
//*************************************************************************
//*************************************************************************
#include <stdio.h>
main ()
{
  int a,b,c,large;
  printf ("Enter the three Numbers\n");
  scanf ("%d %d %d", &a,&b,&c);
  large=a;
        if(b>large)
```

```
        large=b;
    if(c>large)
    large=c;
  printf ("%d is the greatest of the three Numbers",large);
}
```

OUTPUT

```
Enter the three Numbers
10
5
3
10 is the greatest of the three Numbers

...Program finished with exit code 0
Press ENTER to exit console.
```

```
main.c:11:1: warning: return type defaults to 'int' [-Wimplicit-int]
Enter the three Numbers
2
10
5
10 is the greatest of the three Numbers

...Program finished with exit code 0
```

```
 main ()
 ^~~~
Enter the three Numbers
3
7
9
9 is the greatest of the three Numbers
```

Expt 3: Square a number with LSB 5

AIM

To calculate the square of the number entered by the user, if the least

significant digit of that number is 5.

ALGORITHM

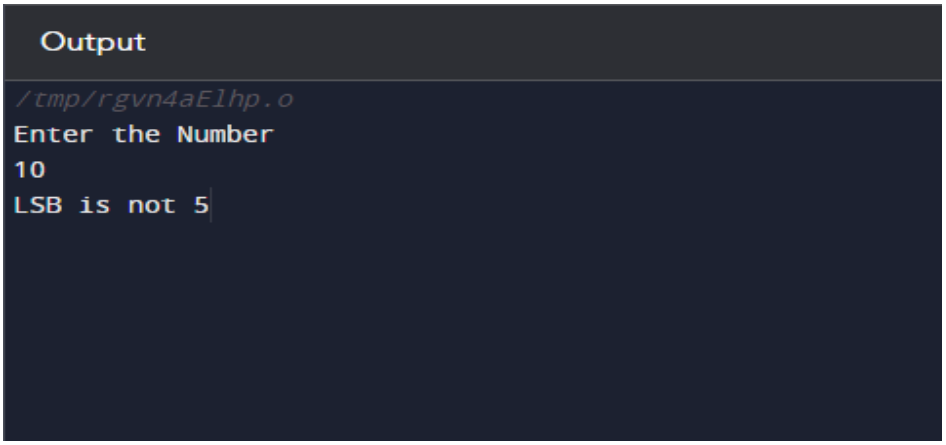
- Read the number
- With Modular division operation, last digit is separated to confirm whether its 5 or not
- If it is '5', then square the number, else display LSB not 5 and exit
- Display the result.

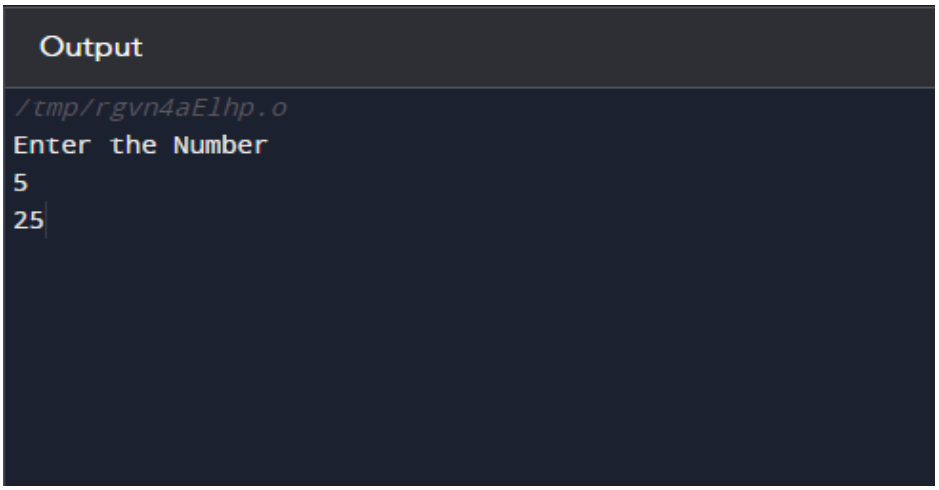
SOURCE CODE

```
//*********************************************************************
// Program name :square_num.c
// Author :Anantha Krishnan R J
// Date Written :01/06/2021
// Date Compiled :01/06/2021
// Aim of the Program : To calculate square of a number.
//*********************************************************************
//*********************************************************************
#include <stdio.h>
main ()
{
        int a,lsb,sq;
       printf ("Enter the Number\n");
        scanf ("%d ",&a);
        lsb = a % 10;
       if(lsb==5)
```

```
        {
            sq=a*a;
           printf("%d",sq);
        }
    else
      printf("LSB is not 5 ");
}
```

OUTPUT





Expt 4: Swap the values of two variables

AIM

To swap the values of two variables without using a third variable.

ALGORITHM

- Read and assign to variables.
- Sum of variables stored to the 1st variable.
- Difference of the current 1st variable and 2nd variable is stored as the new 2nd variable.
- The difference of the current variables are stored as the 1st variable.
- Display the result.

SOURCE CODE

```
//*************************************************************************

// Program name :swapnum.c

// Author :Anantha Krishnan R J

// Date Written : 01/06/2021

// Date Compiled : 01/06/2021

// Aim of the Program :To swap the values of two variables.

//*************************************************************************

//*************************************************************************

#include <stdio.h>

main ()

{

   int a,b;

   printf ("Enter the Numbers\n");

   scanf ("%d %d",&a,&b);

   a=a+b;

   b=a-b;
```

```
    a=a-b;
    printf("\nThe reverse of %d & %d is %d & %d",b,a,a,b);
}
```

OUTPUT