Type3 Function

1. Finding F from C (temp).

```
#include<stdio.h>
void findingf(float);
void main()
{
   float c,f;
   printf("\t\tEnter the Celsius:  ");
   scanf("%f",&c);
   findingf(c);
}


void findingf(float c )
{
  float f ;
    f = ((c*9)/5)+32;
   printf("\t\tTemperature in Fahrenheit is : %f\n",f);
}
```

2. Finding area and perimeter of rectangle or circle.

```
   #include<stdio.h>
void rectangle(int ,int );
void circle(int);
void main()
{
   int a;
   printf("Finding area and perimeter : \n 1 Rectangle \n 2 Cricle \n choose any one ");
   scanf("%d",&a);
   if(a==1)
   {
         int l;
         int w;
         int area;
         int p;
         printf("Enter the length of rectangle : ");
         scanf("%d",&l);
         printf("Enter the width of the rectangle: ");
         scanf("%d",&w);
         rectangle(l,w);
   }else{
            if(a==2){
         int r ;
         int area ;
         int perimeter ;
         int pai = 22/7;
         printf("enter the radius of circle : ");
         scanf("%d",&r);
```

```
            circle(r);
    }
    else {
          printf("!!!!invalid option!!!!\n");
    }

    }

}

void rectangle(int l,int w)
{
    int area;
    int p;
area = l * w ;
printf("Area of rectangle is : %d",area);
printf("\n");
p = 2 * (l + w ) ;
printf("perimeter of rectangle is : %d ",p);
printf("\n");
}

void circle(int r )
{
int area ,perimeter;
int pai = 22/7;
area = pai * (r * r);
printf("area of circle is : %d",area);
printf("\n");
perimeter = 2 * pai * r ;
printf("Perimeter of circle is : %d",perimeter);
printf("\n");
}
```

3. Accept a 3 digit number from user and find the sum of the digits and also reverse the number

```
#include<stdio.h>
void reverse(int);
void sumofdigit(int);
void both();
void main()
{
   int a;
   int num;
   int r ;
   int sum;
   int nu ;
   printf("choose any one\n 1 sum of digit  \n 2 reverse the number \n 3 refresh \ntype here: " );
   scanf("%d",&a);
   if(a==1){
            printf("enter the number here:");
            scanf("%d",&num);
            sumofdigit(num);
            }else{
                  if(a==2){

            printf("Enetr the number is here : ");
            scanf("%d",&nu);
                  reverse(nu);
                  }else{
                      if(a==3){
                               main();

                      }else{
                               printf("invalid input \n");
                      }
                  }
            }




}
 void sumofdigit(int num)
 {
    int sum;
    int r ;
    for(sum=0;r = num %10; num=num/10)
    {
     sum = sum + r;
    }
    printf("sum of digit is : %d \n", sum);
```

```
 }

void reverse(int nu)
{
int re ;

int r ;

   for(re=0;r=nu%10;nu = nu/10)
   {
         re = re *10 + r;
   }
   printf("the reverse value is :  %d\n",re);
}
```

4. Check if the given number is even or odd.

```
#include<stdio.h>
      void evenodd(int);
      void main()
      {
         int num;
          printf("enter the number here :  ");
         scanf("%d",&num);
         evenodd(num);
      }
      void  evenodd(int num)
      {

         if(num%2==0){
               printf("its even number : %d",num);

         }
         else{
               printf("its odd number : %d", num);
         }
      }
```

5. Calculating total salary based on basic. If basic <=5000 da, ta and hra will be 10%,20% and 25% respectively otherwise da, ta and hra will be 15%,25% and 30% respectively.

```
                  #include<stdio.h>
            void less(int);
            void other(int);
            void main()
            {
               int salary;
                        int da,ta,hra;
                        int total;
                        printf("Enter the salary : ");
                        scanf("%d",&salary);
                        if(salary<=5000 )
```

```
                {
                less(salary);
                }
                else{

                other(salary);
                }

}

 void less(int salary)
{
   int da,ta,hra;
                int total;
                da = salary * 10/100;
                ta = salary * 15/100;
                hra = salary *25/100;
                total = salary + da + ta + hra;
 printf("you get 10 and 20 and 25 percent on Ta,Da and Hra\n");
 printf("total salary on basic is : %d",total);
                printf("\n");
}



void other(int salary)
{
 int da,ta,hra;
                int total;
  da = salary * 15/100;
                ta = salary * 25/100;
                hra = salary * 30/100;
    total = salary + da + ta + hra;
    printf("you get 15 and 25 and 30 percent on Ta,Da and Hra \n");
                printf("total salary on basic is : %d",total);
                printf("\n");
}
```

6. Find the price of item when discount is given (specify different discount based on price)

```
#include<stdio.h>
        void fivep(int);
        void tenp(int);
        void main()
        {
           int price;
           int five;
           int total;
           int tend;
           printf("Get discount on price ");
           printf("Enter the price : ");
```

```
   scanf("%d",&price);
            if(price<500)
            {
             fivep(price);
            }
            else
            {

            tenp(price);
                    }


}

void fivep(int price)
{

   int five;
   int total;
   int tend;
   five = price * 0.05;
            total = price - five;
printf(" you get 5 Percent discount ");
printf("now price is %d",total);
            printf("\n");
}

void tenp(int price )
   {

   int five;
   int total;
   int tend;
    tend = price * 0.10;
            total = price - tend;
            printf(" you get 10 Percent discount ");
            printf("now price is %d",total);
            printf("\n");
   }
```

7. Write a program to find greatest of three numbers using nested if-else.

```
#include<stdio.h>
        void findbig(int,int,int);
        void main()
        {
         int a,b,c;
                printf("\tEnter the three number here :\n");
                printf("\tEnter the First number A: ");
                scanf("%d",&a);
```

```
        printf("\tEnter the second number B: ");
        scanf("%d",&b);
        printf("\tEnter the third number C: ");
        scanf("%d",&c);
        findbig(a,b,c);
}

void findbig(int a, int b, int c)
{
  printf("*********************************************\n");

        if (a>b && a>c){
        printf("\tA is max ");
        printf("value is : %d \n",a);
        }else{
                if (b>c && b>a){
                printf("\tB is max ");
                 printf("value is : %d \n",b);
                }else{
                if (c>b && c>a)
                printf("\tC is max ");
                 printf("value is : %d \n",c);
                }


}
  printf("*********************************************\n");
}
```

8. Accept two numbers from user and an operator (+,-,/,*,%) based on that perform the desired operations.

```
        #include<stdio.h>
void add(int,int);
void sub(int,int);
void mult(int,int);
void divi(int,int);

void Rem(int);

void main()
{
  int a;
     int num1,num2;
   printf("\t**********Menu**********:\n");
   printf("\n\t 1 Addition \n\t 2 Substraction \n\t 3 Multiplication \n\t 4 Division \n\t 5 remender \n  Choose any one : ");
   scanf("%d",&a);

   printf("Enter the two number here :\n");
   printf("Enter the First number: ");
   scanf("%d",&num1);
   printf("Enter the Second Number : ");
```

```
   scanf("%d",&num2);

   if(a==1){
     add(num1,num2);
   }else{if(a==2)
            {
              sub(num1,num2);
            }else{if(a==3)
                     {
                       mult(num1,num2);
                     }else{
                       if(a==4){
                         divi(num1,num2);
                       }else{
                        if(a==5){
                          Rem(num1);
                        }else
                        {
                          printf("invalid\n");
                        }

                       }

                     }


            }


   }
}

 void add(int num1,int num2)
 {
   int total;
   total = num1 + num2 ;
   printf( "Addtion is :  %d \n",total);


 }
 void sub(int num1,int num2)
 {
   int total;
   total = num1 - num2 ;
   printf( "Substration is : %d \n",total);

 }
 void  mult(int num1,int num2)
 {
   int total;
   total = num1 * num2;
   printf( "Multiplication is : %d \n",total);
```

```
 }
void  divi(int num1,int num2)
{
  int total;
  total = num1 / num2 ;
  printf( "Division is : %d \n",total);

}

void Rem(int num1)
{
 int total;
  total = num1 % 10 ;
 printf( "Division is : %d \n",total);

}
```

9. Display a menu to the user (like 1.Even Odd 2. Basic salary etc), ask the user to enter his choice, then based on that perform the desired operations.

```
#include<stdio.h>
 void evenodd(int);
  void calcu();
  void  cel(float);
void findbig(int,int,int);
void add(int,int);
void sub(int,int);
void mult(int,int);
void divi(int,int);

void Rem(int);
void main()
{
  int a;
  printf("\t**********Menu**********:\n");
  printf("\n\t 1 Even or odd \n\t 2 +-*/  \n\t 3 find cel \n\t 4 find big number  \n
Choose any one : ");
  scanf("%d",&a);
  if(a==1){
        int num;
        printf("enter the number here :  ");
        scanf("%d",&num);
        evenodd(num);
  }else{
        if(a==2){
             calcu();
        }else{
            if(a==3){
                  float c,f;
                    printf("\t\tEnter the Celsius:  ");
                    scanf("%f",&c);
                    cel(c);
            }else{
```

```
                    if(a==4){
                        int a,b,c;
                         printf("\tEnter the three number here :\n");
                         printf("\tEnter the First number A: ");
                         scanf("%d",&a);
                         printf("\tEnter the second number B: ");
                         scanf("%d",&b);
                         printf("\tEnter the third number C: ");
                         scanf("%d",&c);
                         findbig(a,b,c);
                    }else{
                       printf("invalid \n");
                    }
                }
            }
        }
    }

    void  evenodd(int num)
    {

        if(num%2==0){
            printf("its even number : %d",num);

        }
        else{
            printf("its odd number : %d", num);
        }
    }
    void calcu()
    {
      int a;
         int num1,num2;
        printf("\t**********Menu**********:\n");
        printf("\n\t 1 Addition \n\t 2 Substraction \n\t 3 Multiplication \n\t 4 Division \n\t 5
remender \n  Choose any one : ");
        scanf("%d",&a);

        printf("Enter the two number here :\n");
        printf("Enter the First number: ");
        scanf("%d",&num1);
        printf("Enter the Second Number : ");
        scanf("%d",&num2);

        if(a==1){
          add(num1,num2);
        }else{if(a==2)
                {
                  sub(num1,num2);
                }else{if(a==3)
                        {
                          mult(num1,num2);
```

```
                    }else{
                      if(a==4){
                        divi(num1,num2);
                      }else{
                       if(a==5){
                          Rem(num1);
                       }else
                       {
                         printf("invalid\n");
                       }

                      }

                    }


            }


    }
    printf("\t********Thank you **********\n");
}
void cel(float c )
{
  float f ;
    f = ((c*9)/5)+32;
   printf("\t\tTemperature in Fahrenheit is : %f\n",f);
}
void findbig(int a, int b, int c)
{
   printf("*********************************************\n");

            if (a>b && a>c){
            printf("\tA is max ");
            printf("value is : %d \n",a);
            }else{
                    if (b>c && b>a){
                          printf("\tB is max ");
                           printf("value is : %d \n",b);
                    }else{
                    if (c>b && c>a)
                    printf("\tC is max ");
                     printf("value is : %d \n",c);
                    }


}
   printf("*********************************************\n");
}

void add(int num1,int num2)
 {
```

```
   int total;
   total = num1 + num2 ;
   printf( "Addtion is :  %d \n",total);


}
void sub(int num1,int num2)
{
   int total;
   total = num1 - num2 ;
   printf( "Substration is : %d \n",total);

}
void  mult(int num1,int num2)
{
   int total;
   total = num1 * num2;
   printf( "Multiplication is : %d \n",total);

 }
void  divi(int num1,int num2)
{
   int total;
   total = num1 / num2 ;
   printf( "Division is : %d \n",total);

}

void Rem(int num1)
{
 int total;
   total = num1 % 10 ;
  printf( "Division is : %d \n",total);

}
```

10. Accept the price from user. Ask the user if he is a student (user may say yes or no). If he is a student and he has purchased more than 500 than discount is 20% otherwise discount is 10%. But if he is not a student then if he has purchased more than 600 discount is 15% otherwise there is not discount.

```
   #include<stdio.h>
void nonstud(int);
void stud(int);
void main()
{
        int v;
        int price;
        int final,total;
        printf( "you are studnet ( yes(1) or no(2) ):");
        scanf ("%d",&v);
        if(v == 1)
        {
```

```
                printf ("you are student so u will get discount \n");
                printf("enter the price here :");
                scanf("%d",&price);
                stud(price);
                }else{
                if(v == 2){
                printf ("you are non-student so u will get discount \n");
                printf("enter the price here :");
                scanf("%d",&price);
                nonstud(price);
                }
                else{
                 printf("invalid option \n");
                }
                }

        }




        void stud(int price)
        {

                int final,total;
                if(price>500)
                        {
                        final = price * 0.2;
                        total = price -final;
                        printf(" you are student and you get 20Percent off bcz price is more
than 500 \n");
                        printf("price is : %d\n",total);
                        }else
                        {
                        final = price * 0.1;
                        total = price -final;
                        printf(" you are student and you get 10 Percent off bcz of price is less
than 500 \n");
                    printf("price is : %d\n",total);
                        }
        }

        void nonstud(int price)
        {

                int final,total;
                if(price>600)
                {
                final = price * 0.15;
                total = price -final;
```

```
                printf("price is more the 600 so u get 15 Percent discount \n");
                printf("price is : %d\n",total);

                }else
                {
                printf("Sorry u are not valid for discount\n");
                printf("price is : %d\n",price);
                }
        }
```

11. Find the factorial of any number

```
#include<stdio.h>
    void Factorial(int);
    void main()
    {
       int num;
       printf("\nEnter the number : ");
       scanf("%d",&num);
       Factorial(num);
    }

    void Factorial(int num)
    {
       int f;
       int i=1;
       for(f=1;i<=num;i++)
       {
       f = f*i;
       }
       printf("Factorial is : %d\n",f);

    }
```