```c
#include<stdio.h>
//Check Amstrong no. by function type-2//
int amstrong();
void main()
 {
    int a;
    a=amstrong();
    if(a==1)
    {
     printf(" is Amstrong Number");
    }
    else
    {
     printf(" is not  Amstrong Number");
    }

 }
int amstrong()
{
    int num, onum, remainder, result = 0;
    printf("Enter a no. here : ");
    scanf("%d", &num);

    int n=0;
// no. of digit//

        for(onum=num;onum!=0;n++)
                {
                    onum=onum/10;
                }

```

```
32: //reduce  no.//
33:
34:           for(onum=num;onum!=0;onum=onum/10)
35:              {
36:                  remainder = onum % 10;
37:                  result =result+ pow(remainder,
    n);
38:
39:              }
40:
41:         //print with if esle//
42:
43:          if (result == num)
44:              {
45:                  printf("Hey..%d",num);
46:                  return 1;
47:
48:              }
49:              else
50:              {
51:              printf("Hey..%d",num);
52:              return 0;
53:              }
54:
55: }
56:
```

```c
#include <stdio.h>

// Area & Perimeter of circle and Rectangle Function type2//
float circlearea();
float circleperimeter();
float rectanglearea();
float rectangleperimeter();
void main()
{   float a,b,c,d;
        a=circlearea();
        printf("Area of Circle is %.2fsqm\n", a);
        b=circleperimeter();
        printf("Perimeter of Circle is %.2fm\n",b);
        c=rectanglearea();
        printf("Area of REctangle is %.2fsqm\n",c);
        d=rectangleperimeter();
        printf("Perimeter of Rectangle is %.2fm\n",d);

}
 float circlearea()
{
    float Area,r;
    printf("\nPlease Enter Radius Value in meters Here:\n");
    scanf("%f",&r);

```

```
26:     //main formula//
27:
28:     Area=3.142*r*r;      //area...
29:     printf("\nThe Given Radius is=%.2fm\n",
    r);
30:     return Area;
31: }
32: float circleperimeter()
33: {
34:     float Perimeter,r;
35:     printf("\nPlease Enter Radius Value again
    in meters Here for Perimeter of Circle:\n");
36:     scanf("%f",&r);
37:
38:     //main formula//
39:     Perimeter=2*3.142*r;
    //perimeter..
40:
41:     printf("\nThe Given Radius is=%.2fm\n",
    r);
42:     return Perimeter;
43: }
44:
45: float rectanglearea()
46: {
47:
48:     float Area,b,l;
49:     printf("Please Enter Length and Breath
    value here Value in meters Here:\n");
50:     scanf("%f %f",&l,&b);
51:
```

```
52:     //main formula//
53:     Area=l*b;       //area...
54:     return Area;
55: }
56:
57: float rectangleperimeter()
58: {
59:
60:     float Perimeter,b,l;
61:     printf("Please Enter Length and Breath
    value Again here Value in meters Here For
    Perimeter of Rectangle:\n");
62:     scanf("%f %f",&l,&b);
63:
64:     //main formula//
65:     Perimeter=2*(l+b);          //perimeter..
66:     return Perimeter;
67: }
68:
```

```c
#include <stdio.h>

//Check even or odd Function type2 //
int evenodd();
void main()
 {
    int x;
    x=evenodd();
        if(x==1)
         {
            printf("          And\n The Given no. is Even\n");
         }
         else
         {
            printf("           And\n The Given no. is odd");
         }
}

int evenodd()
{

    int n;
    printf("Please Enter No. Here ");
    scanf("%d",&n);


    printf("Hey Your Entered NO. is:%d\n",n);


```

```
29:         /*if (n%2==0)
30:         {
31:             return 1;
32:         }
33:         else
34:         {
35:            return 0;
36:         }*/
37:         return (n%2==0)?1:0;
38:
39:
40: }
```

```c
#include <stdio.h>

// greatest of three no. by Function type 2
//

int Greatestnum();
void main()
 {  int a;
    a=Greatestnum();
    printf("\nHey...Your Greatest Number From above Numbers is %d",a);

 }
 int Greatestnum()
 {

    int n1,n2,n3;
    printf("Hey...Please Enter Integer Below\n");
    printf("\nPlease Enter first no. here ");
    scanf("%d",&n1);

    printf("Please Enter Second no. here ");
    scanf("%d",&n2);


    printf("Please Enter Third no. here ");
    scanf("%d",&n3);
        if(n1>n2)
        {

```

```
29:                 if (n1>n3)
30:                 return n1;
31:                 else
32:                 return n3;
33:
34:             }
35:
36:             else
37:             {
38:
39:                 if(n2>n3)
40:                 return n2;
41:                 else
42:                 return n3;
43:
44:             }
45: }
```

```c
#include <stdio.h>

// Menu:merge program Function type 2//
int  menu();
int evenodd();
int  totalsalary();
int choose_operator();

int main()
{
        int ch;
        ch=menu();
//retrun type se bhi and directly void likhke just down statement se aslo it will execute//
        /*{
        printf("\nPlease enter your choice here:");
        scanf("%d",&ch);
        }
        */
        int a,b,c;

        if(ch==1)
            {
            a=evenodd();
                    {
                        if(a==1)
                        {
                            printf("And\n The Given no. is Even\n");
```

```
28:                             }
29:                             else
30:                             {
31:                                 printf("
    And\n The Given no. is odd");
32:                             }
33:                         }
34:         }
35:         else if(ch==2)
36:             {
37:              b=totalsalary();
38:              printf("Your Total salary
    is=%d\n",b);
39:         }
40:         else if(ch==3){
41:
42:             c=choose_operator();
43:             printf("%d",c);
44:         }
45: }
46:
47: int menu()
48:     {
49:             int ch;
50:         printf("\n ....Hey This is our
    Menu!...\n ");
51:         printf("\n 1.Even Odd ");
52:         printf("\n 2.Total Salary ");
53:         printf("\n 3.Asking Two Number &
    Operator");
54: printf("\nPlease enter your choice here:");
```

```
55:          scanf("%d",&ch);
56:
57: return ch;
58:          }
59: //Even odd//
60: int evenodd()
61: {
62: int num,ch;
63:
64:              printf("Please Enter No. Here: ");
65:              scanf("%d",&num);
66:
67:
68:              printf("Hey Your Entered NO.
    is:%d\n",num);
69:                  if (num%2==0)
70:                  {
71:                      return 1;
72:                  }
73:                  else
74:                  {
75:                  return 0;
76:                  }
77:
78: }
79: //salary //
80: int totalsalary()
81: {
82:     int tl,tm,n,ch;
83:              printf("\nPlease Enter Your
    Salary here: ");
```

```
84:                 scanf("%d",&n);
85:
86:         //Main formula//
87:
88:                 tl=n+n*0.1+n*0.2+n*0.25;
    // less than 5000
89:                 tm=n+n*0.15+n*0.25+n*0.3;
    // more than 5000
90:
91:                 printf("Hey Your Entered basic
    Salary is:%d\n",n);
92:
93:                     if (n<=5000)
94:                     {
95:                         return tl;
96:                     }
97:                     else
98:                     {
99:                         return tm;
100:
101:                    }
102:
103: }
104: // two no. and operator//
105: int choose_operator()
106: {
107:     int n1,n2,sum,sub,mut,mod,div;
108:
109:                 char ch;
110:                 printf("Please Enter first no.
    here: ");
```

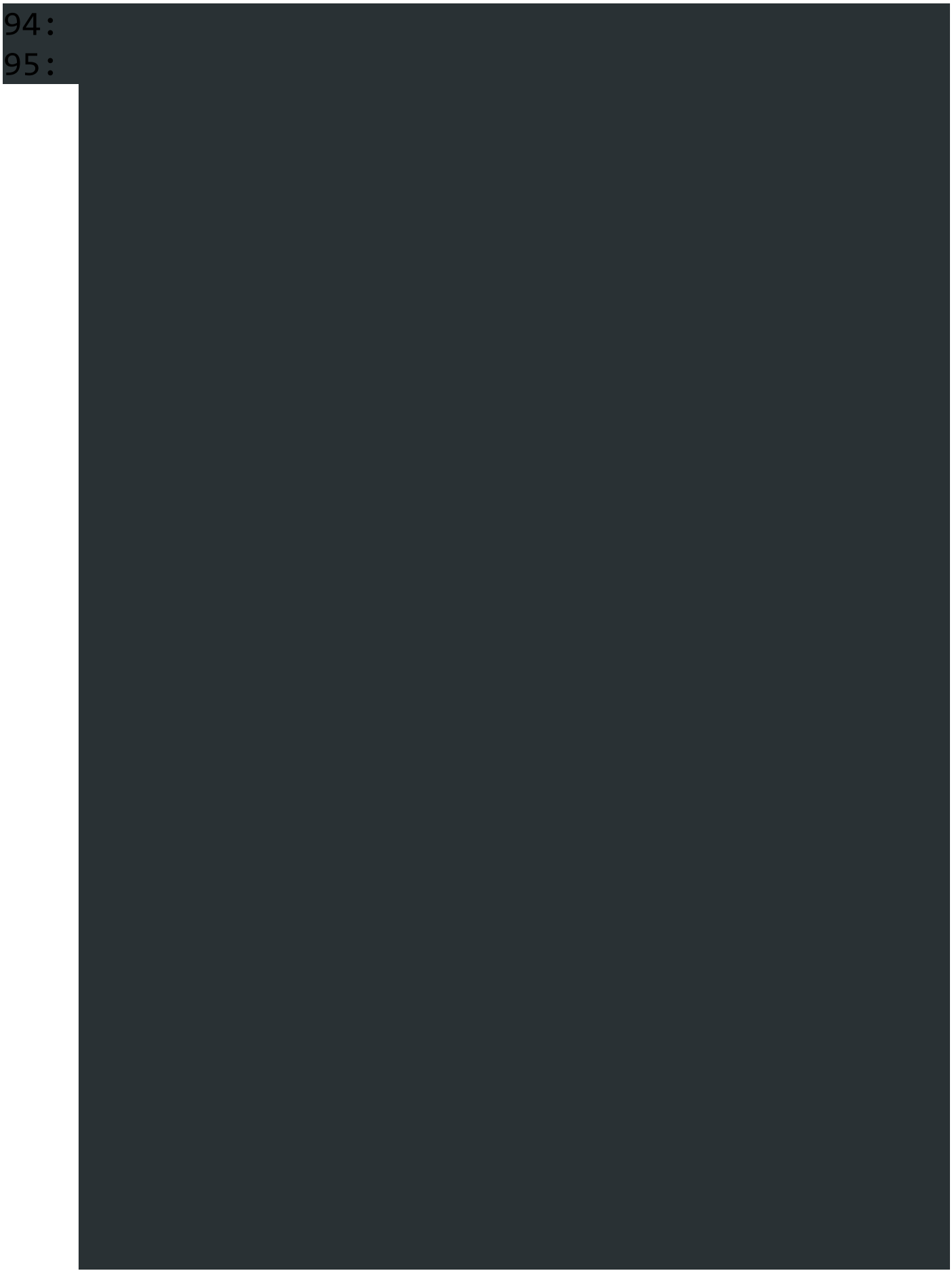
```
111:                scanf("%d",&n1);
112:
113:                printf("Please Enter Second no.
    here: ");
114:                scanf("%d",&n2);
115:
116:                /*printf("\n 1.  addition ");
117:                printf("\n 2.  subtraction ");
118:                printf("\n 3.  multiplication ");
119:                printf("\n 4.  division");
120:                printf("\n 5.  Modulus ");*/
121:
122:                fflush(stdin);
123:                printf("Please Enter operator
    here: ");
124:                scanf("%c",&ch);
125:
126:            if(ch=='+')
127:            {
128:                sum = n1+n2;
129:                printf("Sum of Above Numbers is:
    ");
130:                return sum;
131:
132:            }
133:            else if(ch=='-')
134:            {
135:                sub = n1-n2;
136:                printf("Sub of Above Numbers is:
    ");
137:                return sub;
```

```
138:         }
139:         else if(ch=='*')
140:         {
141:             mut=n1*n2;
142:             printf("Multiplication of Above
    Numbers is: ");
143:             return mut;
144:
145:         }
146:         else if(ch=='/')
147:         {
148:             div=n1/n2;
149:             printf("Divison of Above Numbers
    is: ");
150:             return div;
151:         }
152:
153:         else if(ch=='%')
154:         {
155:             mod=n1%n2;
156:             printf("Modulus of Above Numbers
    is: ");
157:             return mod;
158:         }
159:
160:
161: }
162:
163:
164:
```

```c
#include <stdio.h>
//  digit to word function type 1//
void num_word();
void main()
{
     num_word();
}
void num_word()
{
    int n,q,r;
    printf ("Enter a no. Here....!\n");
    scanf("%d",&n);
    printf ("Your Conversion is ....!\n");

    r=n%10;
    q=n/10;

        if (n>10 && n<20)
        {

            if (r==1)
            printf ("eleven\n");
            else if (r==2)
            printf ("Twelve\n");
            else if (r==3)
            printf ("Thirteen\n");
            else if (r==4)
            printf ("fourtheen\n");
            else if (r==5)
            printf ("fifteen\n");
            else if (r==6)
```

```
32:                 printf ("Sixteen\n");
33:                 else if (r==7)
34:                 printf ("Seventeen\n");
35:                 else if (r==8)
36:                 printf ("Eighteen\n");
37:                 else if (r==9)
38:                 printf ("Nineteen\n");
39:             }
40:
41:                 else {
42:
43:                 if (q==1)
44:                 printf ("Ten\n");
45:                 else if (q==2)
46:                 printf ("twenty");
47:                 else if (q==3)
48:                 printf ("Thirty");
49:                 else if (q==4)
50:                 printf ("fourty");
51:                 else if (q==5)
52:                 printf ("fifty");
53:                 else if (q==6)
54:                 printf ("Sixty");
55:                 else if (q==7)
56:                 printf ("Seventy");
57:                 else if (q==8)
58:                 printf ("Eighty");
59:                 else if (q==9)
60:                 printf ("Ninety");
61:
62:
```

```
63:                 if  (r==1)
64:                 printf ("One\n");
65:                 else if (r==2)
66:                 printf ("Two\n");
67:                 else if (r==3)
68:                 printf ("Three\n");
69:                 else if (r==4)
70:                 printf ("four\n");
71:                 else if (r==5)
72:                 printf ("five\n");
73:                 else if (r==6)
74:                 printf ("Six\n");
75:                 else if (r==7)
76:                 printf ("Seven\n");
77:                 else if (r==8)
78:                 printf ("Eight\n");
79:                 else if (r==9)
80:                 printf ("Nine\n");
81:
82:                 else
83:                 printf ("Invalid Input");
84:
85:                 }
86: }
87:
88:
89:
90:
91:
92:
93:
```



```c
#include<stdio.h>
// only check palindrome or not by function type 2//
int palindrome();
void main()

{
    int a;
    a=palindrome();
    if(a==1)
    {
        printf(" is Palindrome Number");
    }
    else
    printf(" is Not Palindrome Number");

}

int palindrome()
{

    int n,r,reverse=0,i;
    printf("Enter no. Here to Check Palindrome or not ");
    scanf("%d",&n);
//for loop//
    for(i=n;n>0;n=n/10)
    {
        r=n%10;
        reverse=reverse*10+r;

```

```
30:     }
31:
32:     if(i==reverse)
33:     {
34:         printf("Hey..%d",i);
35:         return 1;
36:     }
37:     else
38:     {
39:         printf("Hey..%d",i);
40:         return 0;
41:     }
42:
43: }
44:
```

```c
#include<stdio.h>

//just check no. is perfect or not by Function type 2//
int perfect();
void main()
{
    int a;
    a=perfect();
    if(a==1)
    {
        printf(" is Perfect Number");

    }
    else
    {
        printf(" is Not Perfect Number");
    }
}

int perfect()

{

  int  i,n,sum=0;
  printf("Enter the number You want to Check: ");
  scanf("%d", &n);
//for loop//
        for(i=1;i<n;i++)
        {
```

```
30:                 if(n%i==0)
31:                 {
32:                 sum=sum+i;
33:                 }
34:             }
35:                 if(sum==n)
36:                 {
37:                 printf("Hey..%d",n);
38:                 return 1;
39:                 }
40:                 else
41:                 {
42:                     printf("Hey..%d",n);
43:                     return 0;
44:                 }
45: }
46:
47:
```

```c
#include <stdio.h>

// From Discount find Price using Function type 2//
float Discountprice();
void main()
 {
    float total;
    total=Discountprice();
    printf("Payable amount after Discount is %.2f\n",total);
 }
float Discountprice()
{

    float total,price,dis;

    printf("Please Enter Price here: \n");
    scanf("%f",&price);

        if (price<=500)
        {

            printf("Hey..Discount on item is 5%%. \n");
            dis=price*0.05;
        }
        else if(500<price && price <=1000)
        {
            printf("Hey..Discount on item is 10%%. \n");
```

```
28:             dis=price*0.1;
29:         }
30:         else if(1000<price)
31:         {
32:             printf("Hey..Discount on item is
    15%%. \n");
33:             dis=price*0.2;
34:         }
35:
36:
37:         total=price-dis;
38:         printf("Your Price of Item was %.2f
    \n",price);
39:         printf("Discount on item is %.2f\n",
    dis);
40:         return total;
41:
42: }
43:
44:
```

```c
#include<stdio.h>
//Check Strong number by Function type-2//
int strong();
void main()
{
    int a;
    a=strong();
    if(a==1)
    printf(" is Strong Number",a);
    else
    printf(" is Not Strong Number",a);

}
int strong()
{

    int n,i=1,r,sum=0,fact,temp;
    printf("Enter a Number u want to Check here:");
    scanf("%d",&n);


//for loop//
//range loop//
    for(temp=n;n;n=n/10)
    {

        fact=1;
        r=n%10;
//condition
        for(i=1;i<=r;i++)
```

```
31:             {
32:                 fact=fact*i;
33:             }
34:             sum=sum+fact;
35:         }
36:
37:         if(sum==temp && temp!=0)
38:         {
39:             printf("Hey..%d",temp);
40:             return 1;
41:         }
42:         else
43:         {
44:             printf("Hey..%d",temp);
45:             return 0;
46:         }
47:
48: }
49:
```

```c
#include<stdio.h>
//Student and discount by Function type 2//

int Student_Discount();
void main()
{
     int final;
     final=Student_Discount();
     printf("Payable Price is=%d\n",final);
}
int Student_Discount()
{

    int price,dis,final;
    char s;

    printf("Hey enter the price here\n");
    scanf("%d",&price);
    fflush(stdin);
    printf("hey r u student!\n.... Type y for yes and n for no...\n ");
    scanf(" %c",&s);

    if(s=='y')
    {
         if(price>500)
        {
        dis=price*0.2;
        final=price-dis;
        printf("Hey Your Discount is:20%5%\n");
```

```
30:          return final;
31:          }
32:          else
33:          {
34:          dis=price*0.1;
35:          final=price-dis;
36:          printf("Hey your Discount is:10%%\n
     ");
37:          return final;
38:          }
39:      }
40:
41:
42:          if(s=='n')
43:      {
44:
45:              if (price>600)
46:
47:              {
48:              dis=price*0.15;
49:              final=price-dis;
50:              printf("Hey Your Discount
     is:15%%\n");
51:              return final;
52:              }
53:              else
54:
55:              {
56:              printf("Sorry! NO discount\n");
57:              return price;
58:              }
```

```
59:
60:     }
61: }
```

```c
#include <stdio.h>

//Sum of digit and its reverse using sum Function type 2//
int sum();
int reverse();
void main()
 {
    int a,b;
    a=sum();
    printf("The Sum of Your Entered Number is=%d\n",a);
    b=reverse();
    printf("The Reverse of Your Entered Number is=%d\n",b);

 }
 int sum()
 {

    int r,q,q1,r1,n,sum;
    printf("Please Enter Three digit No. Here: ");
    scanf("%d",&n);



    r=n%10;
    q=n/10;
    q1=q/10;
    r1=q%10;
```

```
28:
29:     sum=q1+r1+r;
30:     printf("The Given Three digit no.
    is=%d\n",n);
31:     return sum;
32:
33: }
34: int reverse()
35: {
36:     int r,q,q1,r1,n,reverse;
37:     printf("\nPlease Enter The Above Three
    digit No. Here Again for Reversing : ");
38:     scanf("%d",&n);
39:
40:     r=n%10;
41:     q=n/10;
42:     q1=q/10;
43:     r1=q%10;
44:     reverse = r*100+(r1*10)+q1;
45:     return reverse;
46: }
```

```c
#include<stdio.h>
//with loop by function type-2//
int last_firstsum();
void main()
{
    int sum;
    sum=last_firstsum();
    printf("Sum of First and Last digit is:%d",sum);
}
int last_firstsum()
{

    int n,r,sum;
    printf("Enter Your Number Here:");
    scanf("%d",&n);
    r=n%10;
    while(n>10)
    {
        n=n/10;

    }
    printf("First digit is:%d\n",n);
    printf("Last digit is:%d\n",r);

    sum=r+n;
    return sum;
}
```

```c
#include <stdio.h>

// temperature conversion Function type2 //
//float Kelvin();

float Conversion();
void main()
 {
     float fl;
    //kl=Kelvin();
    //printf("Your Conversion in Kelvin is %f\n",kl);
    fl= Conversion();
    printf(" %.2f",fl);

 }


//Ask from user choice //

float Conversion()
{
    float t,f,k;
    char ch;
    printf("Choose before u enter Temperature\n");
    printf("Enter 1:To convert in Fahrenhiet");
    printf("\nEnter 2:To convert in Kelvin\n");
    scanf("%c",&ch);
```

```
28:     printf("\nEnter The Temperature in Degree
    Celcius here:");
29:     scanf("%f",&t);
30:
31:         if(ch=='1')
32:         {
33:             f=(1.8*t)+32;
34:             printf("Conversion in Fahrenhiet
    is :");
35:             return f;       //fahrenhiet...
36:         }
37:
38:         else if(ch=='2')
39:
40:         {
41:         k=273+t;
42:         printf("Conversion in Fahrenhiet is
    :");
43:         return k;           //kelvin..
44:         }
45:     }
46:
47:
```

```c
#include <stdio.h>

//Total salary Function type 2//
int totalsalary();
void main()
{
    int a;
    a=totalsalary();
    printf("And Your Total salary is=%d\n",a);
}
int totalsalary()
{
    int tl,tm,n;

    printf("Please Enter Your Salary here: ");
    scanf("%d",&n);

    //Main formula//

    tl=n+n*0.1+n*0.2+n*0.25;        // less than 5000
    tm=n+n*0.15+n*0.25+n*0.3;       // more than 5000

    printf("Hey Your Entered basic Salary is:%d\n",n);

        if (n<=5000)
        {
            return tl;
```

```
28:             }
29:             else
30:             {
31:                 return tm;
32:             }
33: }
```

```c
#include <stdio.h>

// TWO NO WITH OPERATOR. by Function type 2//
int Choose_operator();
void main()
 {
    int a;
    a=Choose_operator();
    printf("%d",a);

 }
 int Choose_operator()
 {

    int n1,n2,sum,sub,mut,mod,div;
    char ch;
    printf("Please Enter first no. here:");
    scanf("%d",&n1);

    printf("Please Enter Second no. here: ");
    scanf("%d",&n2);

        /*printf("\n 1.  addition ");
        printf("\n 2.  subtraction ");
        printf("\n 3.  multiplication ");
        printf("\n 4.  division");
        printf("\n 5.  Modulus ");*/

    fflush(stdin);
    printf("Please Enter operator here: ");

```

```
32:     scanf("%c",&ch);
33:
34:     if(ch=='+')
35:     {
36:         sum = n1+n2;
37:         printf("Sum of Above Numbers is: ");
38:         return sum;
39:
40:     }
41:     else if(ch=='-')
42:     {
43:         sub = n1-n2;
44:         printf("Sub of Above Numbers is: ");
45:         return sub;
46:     }
47:     else if(ch=='*')
48:     {
49:         mut=n1*n2;
50:         printf("Multiplication of Above
    Numbers is: ");
51:         return mut;
52:
53:     }
54:     else if(ch=='/')
55:     {
56:         div=n1/n2;
57:         printf("Divison of Above Numbers is:
    ");
58:         return div;
59:     }
60:
```

```
61:     else if(ch=='%')
62:     {
63:         mod=n1%n2;
64:         printf("Modulus of Above Numbers is:
    ");
65:         return mod;
66:     }
67:
68: }
```