```c
#include<stdio.h>
//Check Amstrong no. by function type-3//
void amstrong(int);
void main()
 {
    int num;
    printf("Enter a no. here : ");
    scanf("%d", &num);

    amstrong(num);

 }
void amstrong(int num)
{
    int onum, remainder, result = 0;

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

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

//reduce  no.//

          for(onum=num;onum!=0;onum=onum/10)
             {
                remainder = onum % 10;
                result =result+pow(remainder,
n);
```

```
31:
32:             }
33:
34:         //print with if esle//
35:             if (result == num)
36:             printf("%d is an Armstrong
    number.", num);
37:          else
38:             printf("%d is not an Armstrong
    number.", num);
39:
40: }
41:
```

```c
#include <stdio.h>
//for Amstrong no. range questions by function type-3  //
void range_amstrong(int,int);
void main()
{
    int lower,upper;
    printf("Enter Lower and Upper limit Here:");
    scanf("%d %d",&lower ,&upper);

         range_amstrong(lower,upper);
}
void range_amstrong(int lower,int upper)
{

    int num, onum, remainder, result = 0;

    int i,n;
    for(num=lower;num<=upper;num++)
    {
    result=0;n=0;

// no. of digit//
        for(onum=num;onum!=0;n++)
                {
                    onum=onum/10;
                }

        //reduce  no.//

```

```
30: //for loop//
31:                 for(onum=num;onum!=0;onum=onum/10)
32:                 {
33:                     remainder = onum % 10;
34:                 //result =result + remainder *
    remainder * remainder;
35:
36:                     result =result+ pow(remainder,
    n);
37:
38:                 }
39:
40:
41:       //printf("%d is an Armstrong number.",
    result);
42:                 if (result == num)
43:                 printf("%d ", num);
44:       }
45: }
46:
```

```c
#include <stdio.h>

// Area & Perimeter of circle and Rectangle Function type 3//
void circle(float);
void rectangle(float,float);
void main()
{
    float r,l,b;

    circle(r);

    rectangle(l,b);


}
 void circle(float r)
{
        float Area,Perimeter;

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

    //main formula//

    Area=3.142*r*r;       //area...
    Perimeter=2*3.142*r;
//perimeter..

    printf("\nThe Given Radius is=%.2fm\n", r);
```

```
29:     printf("Area of Circle is=%.2fsqm\n",
    Area);
30:     printf("Perimeter of Circle is=%.2fm\n",
    Perimeter);
31:
32: }
33:
34: void rectangle(float l,float b)
35: {
36: float Area,Perimeter;
37:
38:     printf("\nPlease Enter Length and Breath
    value here Value in meters Here:\n");
39:     scanf("%f %f",&l,&b);
40:
41:     //main formula//
42:     Area=l*b;       //area...
43:     Perimeter=2*(l+b);          //perimeter..
44:     printf("Area of Rectangle is=%.2fsqm\n",
    Area);
45:     printf("Perimeter of Rectangle
    is=%.2fm\n",Perimeter);
46: }
47:
```

```c
#include <stdio.h>

//Check evev or odd Function type 3 //
void evenodd(int);
void main()
 {
    int n;
    evenodd(n);
 }
void evenodd(int n)
{

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


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


        if (n%2==0)
        {
            printf("         And\n The Given no. is Even\n");
        }
        else
        {
            printf("          And\n The Given no. is odd");
        }
}
```

```c
#include <stdio.h>

//...........Fibonacci by function type 3..../
void fibonacci(int);
void main()
{
    int n;
    printf("Enter the number of terms You want in Series: ");
    scanf("%d",&n);

    fibonacci(n);
}

void fibonacci(int n)
{
  int  i;
  int t1 = 0, t2 = 1;
  int nextTerm;
  nextTerm = t1 + t2;
  printf("Fibonacci Series: %d %d ", t1, t2);

    for(i=3;i<=n;i++)
        {
            printf("%d ", nextTerm);
            t1 = t2;
            t2 = nextTerm;
            nextTerm = t1 + t2;

        }
```

```
30: }
31:
```

```c
#include<stdio.h>
//with loop by function type-3//
void last_firstsum(int);
void main()
{
    int n;
    last_firstsum(n);
}
void last_firstsum(int n)
{

    int 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;
    printf("Sum of First and Last digit
is:%d",sum);
}
```

```c
#include <stdio.h>

// TWO NO WITH OPERATOR. by Function type 3//
void Choose_operator(int,int);
void main()
 {
    int n1,n2;
    printf("Please Enter first no. here:");
    scanf("%d",&n1);

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

    Choose_operator(n1,n2);
 }
 void Choose_operator(int n1,int n2)
 {

    int sum,sub,mut,mod,div;
    char ch;

        /*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: ");

    scanf("%c",&ch);
```

```
32:
33:     if(ch=='+')
34:     {
35:         sum = n1+n2;
36:         printf("Your outcome is:%d",sum);
37:     }
38:     else if(ch=='-')
39:     {
40:         sub = n1-n2;
41:         printf("Your outcome is:%d",sub);
42:     }
43:     else if(ch=='*')
44:     {
45:         mut=n1*n2;
46:         printf("Your outcome is:%d",mut);
47:     }
48:     else if(ch=='/')
49:     {
50:         div=n1/n2;
51:         printf("Your outcome is:%d",div);
52:     }
53:     else if(ch=='%')
54:     {
55:         mod=n1%n2;
56:         printf("Your outcome is:%d",mod);
57:     }
58:
59: }
```

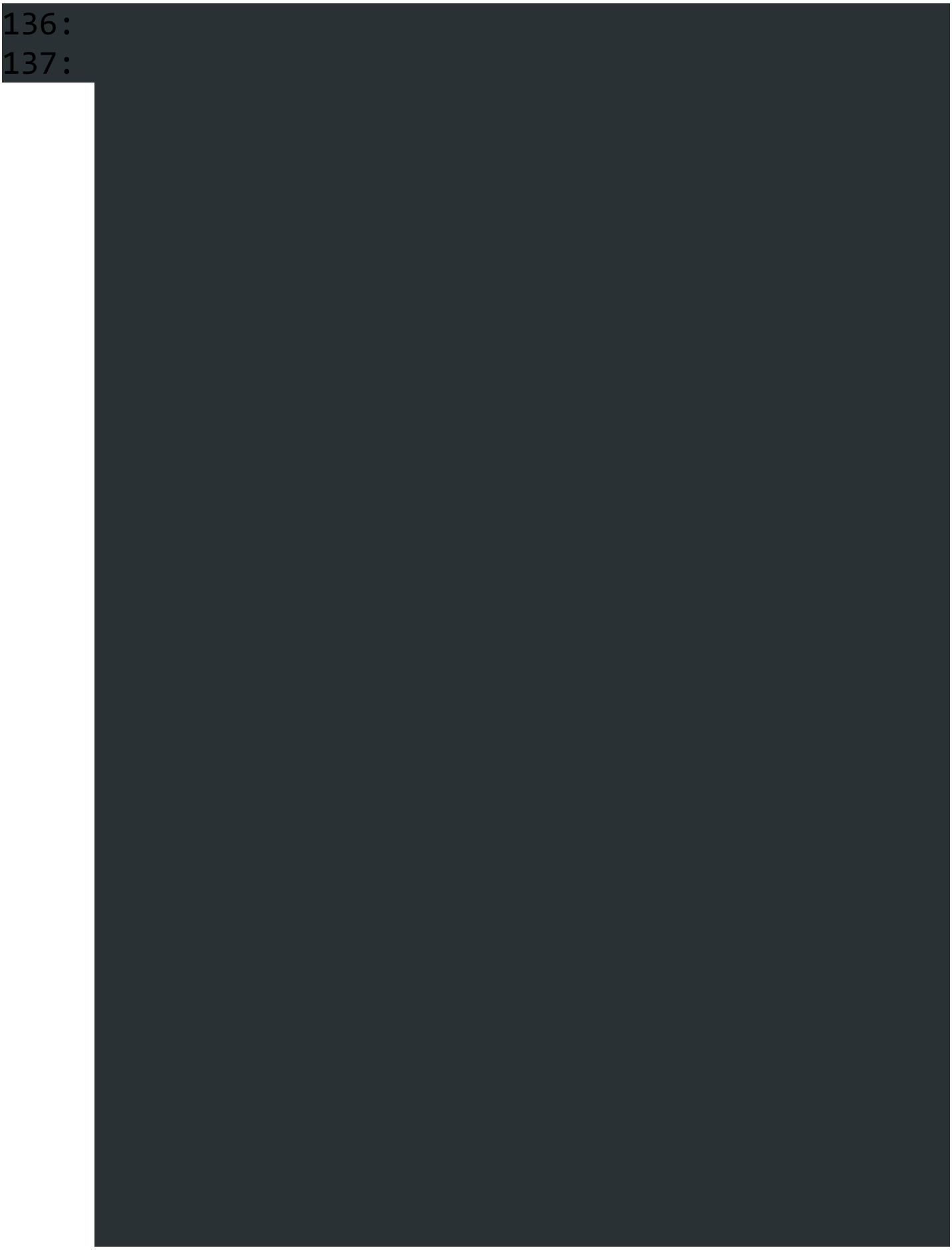
```
1:
2:
3: #include <stdio.h>
4:
5: // Menu:merge program Function type 3//
6: void evenodd(int);
7: void totalsalary(int);
8: void choose_operator(int,int);
9:
10: void main()
11:  {
12:  int ch,num,n,n1,n2;
13:           printf("\n ....Hey This is our
    Menu!...\n ");
14:          printf("\n 1.Even Odd ");
15:          printf("\n 2.Total Salary ");
16:          printf("\n 3.Asking Two Number &
    Operator");
17:          printf("\nPlease enter your choice
    here:");
18:          scanf("%d",&ch);
19:
20:
21:      if(ch==1)
22:      {
23:          printf("Please Enter No. Here: ");
24:          scanf("%d",&num);
25:          evenodd(num);
26:       }
27:       if(ch==2)
28:       {
```

```
29:          printf("\nPlease Enter Your Salary
     here: ");
30:          scanf("%d",&n);
31:          totalsalary(n);
32:
33:       }
34:      if(ch==3)
35:      {
36:          printf("Please Enter first no. here:
     ");
37:          scanf("%d",&n1);
38:
39:          printf("Please Enter Second no. here:
     ");
40:          scanf("%d",&n2);
41:
42:          choose_operator(n1,n2);
43:
44:       }
45: }
46:
47:
48: //Even odd//
49: void evenodd(int num)
50: {
51: //int num;
52:
53:
54:              printf("Hey Your Entered NO.
     is:%d\n",num);
55:                  if (num%2==0)
```

```
56:                 {
57:                     printf("          And\n
    The Given no. is Even\n");
58:                 }
59:                 else
60:                 {
61:                     printf("           And\n
    The Given no. is odd");
62:                 }
63: }
64: //salary //
65: void totalsalary(int n)
66: {
67:     int tl,tm;
68:
69:     //Main formula//
70:
71:             tl=n+n*0.1+n*0.2+n*0.25;
    // less than 5000
72:             tm=n+n*0.15+n*0.25+n*0.3;
    // more than 5000
73:
74:             printf("Hey Your Entered basic
    Salary is:%d\n",n);
75:
76:                 if (n<=5000)
77:                 {
78:                     printf("Your Total salary
    is=%d\n",tl);
79:                 }
80:                 else
```

```
81:                 {
82:                     printf("Your Total salary
    is=%d\n",tm);
83:                 }
84: }
85:
86: // two no. and operator//
87: void choose_operator(int n1,int n2)
88: {
89:     int sum,sub,mul,mod,div;
90:
91:             char hi;
92:
93:             /*printf("\n 1.  addition ");
94:             printf("\n 2.  subtraction ");
95:             printf("\n 3.  multiplication ");
96:             printf("\n 4.  division");
97:             printf("\n 5.  Modulus ");*/
98:
99:             fflush(stdin);
100:            printf("Please Enter operator
    here: ");
101:            scanf("%c",&hi);
102:
103:                if(hi=='+')
104:                {
105:                    sum = n1+n2;
106:                    printf("Your outcome
    is:%d",sum);
107:                }
108:                else if(hi=='-')
```

```
109:                    {
110:                        sub = n1-n2;
111:                        printf("Your outcome
    is:%d",sub);
112:                    }
113:                    else if(hi=='*')
114:                    {
115:                        mul = n1*n2;
116:                        printf("Your outcome
    is:%d",mul);
117:                    }
118:                    else if(hi=='%')
119:                    {
120:                        mod = n1%n2;
121:                        printf("Your outcome
    is:%d",mod);
122:                    }
123:                    else if(hi=='/')
124:                    {
125:                        div = n1/n2;
126:                        printf("Your outcome
    is:%d",div);
127:                    }
128: }
129:
130:
131:
132:
133:
134:
135:
```

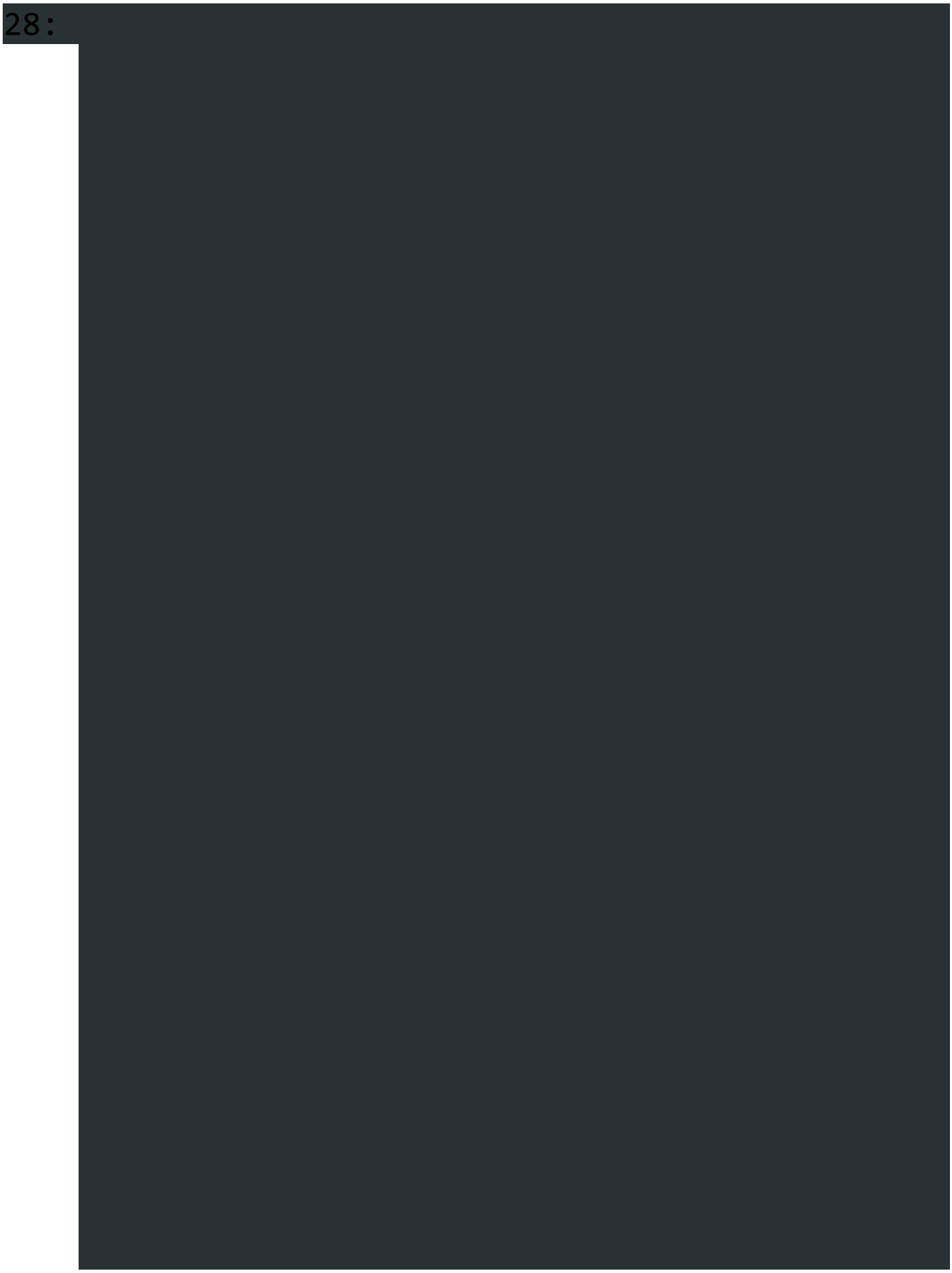


```c
#include <stdio.h>
// one digit to word function type 3//
void num_word(int);
void main()
{
    int n;
    printf ("Enter one digit or two digit number Here....!\n");
    scanf("%d",&n);
    num_word(n);
}
void num_word(int n)
{
    int q,r;

    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");
```

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

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

```c
#include<stdio.h>
// only check palindrome or not by function type 3//
void palindrome(int);
void main()

{
    int n;
    printf("Enter no. Here to Check Palindrome or not ");
    scanf("%d",&n);
    palindrome(n);
}

void palindrome(int n)
{

    int r,reverse=0,i;

//for loop//
    for(i=n;n>0;n=n/10)
    {
        r=n%10;
        reverse=reverse*10+r;

    }

    (i==reverse)?printf("Hey %d is Palindrome",i):printf( Palindrome",i);
}
```



```c
#include<stdio.h>

//just check no. is perfect or not by Function type 3//
void perfect(int);
void main()
{
    int n;
    printf("Enter the number You want to Check: ");
    scanf("%d", &n);
    perfect(n);

}
void perfect(int n)

{

  int  i,sum=0;

//for loop//
        for(i=1;i<n;i++)
        {
            if(n%i==0)
            {
            sum=sum+i;
            }
        }
            if(sum==n)
            printf("\nHey..%d is a Perfect Number",n);
```

```
29:                 else
30:                 printf("\nHey..%d is a not
    Perfect Number",n);
31:
32: }
33:
34:
```

```c
#include <stdio.h>
//perfect no. range ask for both range function type 3//
void perfect_range(int,int);
void main()
{
    int low,end;
    printf("Enter upper and Lower limit: ");
    scanf("%d %d", &low ,&end);

    perfect_range(low,end);
}
 void perfect_range(int low,int end)
 {

    int i, j,sum;


    printf("All Perfect numbers between % to %d:\n",low, end);

    // range loop//
    for(i=low; i<=end; i++)
    {
        sum = 0;

 //condition//

        for(j=1; j<i; j++)
        {
            if(i % j == 0)
```

```
30:                 {
31:                     sum += j;
32:                 }
33:             }
34:
35:             if(sum == i)
36:             {
37:                 printf("\n%d ", i);
38:             }
39:         }
40:
41:     }
42:
```

```c
#include <stdio.h>

// From Discount find Price using Function type 3 //
void Discountprice(float);
void main()
 {
    float price;

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

    Discountprice(price);
 }
void Discountprice(float price)
{

    float total,dis;


        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");
```

```
29:             dis=price*0.1;
30:         }
31:         else if(1000<price)
32:         {
33:             printf("Hey..Discount on item is
    15%%. \n");
34:             dis=price*0.2;
35:         }
36:
37:
38:         total=price-dis;
39:         printf("Your Price of Item was %.2f
    \n",price);
40:         printf("Discount on item is %.2f%%\n",
    dis);
41:         printf("Payable amount after Discount
    is %.2f\n",total);
42:
43: }
44:
45:
```

```c
#include<stdio.h>
// prime no.range by function -3 //
void range_prime(int,int);
void main()

{
    int low,high;
    printf("Enter two numbers intervals: ");
    scanf("%d %d", &low, &high);

    range_prime(low,high);
}
void range_prime(int low,int high)
{

   int  i, count=0;
   printf("Prime numbers between %d and %d are: ", low, high);

   // range alot


 //for loop//

 for(;low<high;low++)
 {
     count = 0;

      // ignore no. < 2 bcz is lowest prime no.//

```

```
30:         if (low <= 1)
31:         {
32:            ++low;
33:            continue;
34:         }
35:
36:         for (i = 2; i <= low / 2; ++i)
37:         {
38:
39:            if (low % i == 0)
40:             {
41:               count = 1;
42:
43:             }
44:         }
45:
46:
47:         if (count == 0)
48:           printf("%d ", low);
49:
50:   }
51:
52: }
53:
```

```c
#include<stdio.h>
//Check Strong number by Function type-3//
void strong(int);
void main()
{
    int n;
    printf("Enter a Number u want to Check here:");
    scanf("%d",&n);

    strong(n);
}
void strong(int n)
{

    int i=1,r,sum=0,fact,temp;


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

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

```
31:     }
32:
33:     (sum==temp && temp!=0)?printf("%d is
    Strong Number",temp):printf(
    Number ",temp);
34:
35:
36: }
37:
```

```c
#include<stdio.h>
// strong no range function type 3//

void strong_range(int,int);
void main()

{
    int low,high;
    printf("Enter a lower and upper limit u want to Check here:");
    scanf("%d %d",&low,&high);
    printf("Hey Your Strong Numbers btw your limits are:");

    strong_range(low,high);
}
void strong_range(int low,int high)
{

    int k,n,i=1,r,sum=0,fact=1,n1;


//for loop//
//range loop//
for(k=low;k<=high;k++)
{
    n1=k;
    sum=0;

    for(n=k;n;n=n/10)
    {
```

```
30:             fact=1;
31:             r=n%10;
32:  //condition for factorial
33:             for(i=1;i<=r;i++)
34:             {
35:                 fact=fact*i;
36:             }
37:             sum=sum+fact;
38:         }
39:
40:             if(sum==n1 && n1!=0)
41:             printf("%d\t",n1);
42:             }
43:
44:  }
```

```c
#include<stdio.h>
//Student and discount by Function type 3//
void Student_Discount(int);
void main()
{
    int price,s;
    printf("Hey enter the price here\n");
    scanf("%d",&price);
    Student_Discount(price);

}
void Student_Discount(int price)
{
    char s;
    fflush(stdin);
    printf("hey r u student!\n.... Type y for yes and n for no...\n ");
    scanf("%c",&s);

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

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

```
57:     }
58: }
```

```c
#include <stdio.h>

//Sum of digit and its reverse using sum Function type 3//
void sum_reverse(int);
void main()
 {
    int n;
    printf("Please Enter Three digit No. Here: ");
    scanf("%d",&n);

   sum_reverse(n);
 }
 void sum_reverse(int n)
 {
int r,q,q1,r1,sum, reverse;


    //main formula//eg..241 ;

    r=n%10;//1
    q=n/10;//24
    q1=q/10;//2
    r1=q%10;//4

    sum=q1+r1+r;

    reverse = r*100+(r1*10)+q1;//100+40+2=142

    printf("The Given Three digit no. is=%d\n",n);
```

```
30:     printf("The sum of The Above digits
    is=%d\n",sum);
31:     printf("The reverse of enter Digits
    is=%d\n",reverse);
32: }
33:
```

```c
#include <stdio.h>

//Cases temperature conversion Function type 3 //
void conversion(float,char);
void main()
 {
    char ch;
    printf("Choose for before u enter Temperature\n");
    printf("Enter 1:To convert in Fahrenhiet");
    printf("\nEnter 2:To convert in Kelvin\n");
    scanf("%c",&ch);

    float t;
    printf("Enter the temperature here:");
    scanf("%f",&t);
    conversion(t,ch);

 }
//Ask from user choice //

void conversion(float t,char ch)
{
    float f,k;

    //main formula 9c=(f-32)5//
if(ch=='1')
{
```

```
28:     f=(1.8*t)+32;       //fahrenhiet...
29:     printf("Conversion of given tempertaure
    in Fahrenhiet is=%.2fF\n",f);
30: }
31: if(ch=='2')
32:     {
33:     k=273+t;            //kelvin..
34:     printf("Conversion of given tempertaure
    in Kelvin is=%.2fK\n",k);
35:     }
36: }
```

```c
#include <stdio.h>

//Total salary Function type 3//
void totalsalary(int);
void main()
{
    int n;
    printf("Please Enter Your Salary here: ");
    scanf("%d",&n);

    totalsalary(n);
}
void totalsalary(int n)
{
    int tl,tm;


    //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)
        {
            printf("           And  \nYour Total salary is=%d\n",tl);
```

```
28:          }
29:          else
30:          {
31:              printf("              And  \nYour
    Total salary is=%d\n",tm);
32:          }
33: }
```

```c
#include <stdio.h>

// TWO NO WITH OPERATOR. by Function type 3//
void Choose_operator(int,int);
void main()
 {
    int n1,n2;
    printf("Please Enter first no. here:");
    scanf("%d",&n1);

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

    Choose_operator(n1,n2);
 }
 void Choose_operator(int n1,int n2)
 {

    int sum,sub,mut,mod,div;
    char ch;

        /*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: ");

    scanf("%c",&ch);
```

```
32:
33:     if(ch=='+')
34:     {
35:         sum = n1+n2;
36:         printf("Your outcome is:%d",sum);
37:     }
38:     else if(ch=='-')
39:     {
40:         sub = n1-n2;
41:         printf("Your outcome is:%d",sub);
42:     }
43:     else if(ch=='*')
44:     {
45:         mut=n1*n2;
46:         printf("Your outcome is:%d",mut);
47:     }
48:     else if(ch=='/')
49:     {
50:         div=n1/n2;
51:         printf("Your outcome is:%d",div);
52:     }
53:     else if(ch=='%')
54:     {
55:         mod=n1%n2;
56:         printf("Your outcome is:%d",mod);
57:     }
58:
59: }
```