

pujan mahat

1)

// squaring of given number

```
#include<stdio.h>
int value(int);    //function prototype
int main()
{
    int a,b;
    printf("enter a numbers\n");
    scanf("%d",&a);
    b=value(a);    //calling
    printf("the square of %d = %d",a,b);
    getch();
}
int value(a)        //function defination
{
    int p;
    p=a*a;
    return p;
}
```

2)

// sum of two number

```
#include<stdio.h>
int sum(int,int);
int main()
{
    int a,b,x;
    printf("enter two number\n");
    scanf("%d%d",&a,&b);
    x=sum(a,b);
    printf("the sum is %d",x);
}
int sum(int a,int b)
{
    int s;
    s=a+b;
    return s;
}
```

3)

```
#include<stdio.h>
int pro(int,int);
int main()
```

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```
{
    int a,b,x;
    printf("enter two number\n ");
    scanf("%d%d",&a,&b);
    x=pro(a,b);
    printf("the multiplication of tow number is %d",x);
    getch();
}
int pro(int a,int b)
{
    int p;
    p=a*b;
    return p;
}
```

4)

```
//divide two number
#include<stdio.h>
int div(int ,int);
int main()
{
    int a,b,x;
    printf("enter two number\n");
    scanf("%d%d",&a,&b);
    x=div(a,b);
    printf("the divisibile number is %d",x);
    getch();
}
int div(int a ,int b)
{
    int d;
    d=a/b;
    return d;
}
```

5)

```
// difference of two number

#include<stdio.h>
int diff(int,int);
int main()
{
    int a,b,x;
    printf("enter two number\n");
    scanf("%d%d",&a,&b);
    x=diff(a,b);
}
```

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```
        printf("the difference is %d",x);
    }
    int diff(int a,int b)
    {
        int d;
        d=a-b;
        return d;
    }
```

6)

//greatest number between two number

```
#include<stdio.h>
int great(int,int);
int main()
{
    int a,b,x;
    printf("enter two number\n");
    scanf("%d%d",&a,&b);
    x=great(a,b);
    printf("the greatest number is %d",x);
    getch();
}
int great(int a,int b)
{
    if(a>b)
    {
        return a;
    }
    else
    {
        return b;
    }
}
```

7)

```
// even odd
#include<stdio.h>
void evenodd(int);
int main()
{
    int n ;
```

```
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printf("enter any  number\n");
scanf("%d",&n);
evenodd(n);
```

```
    getch();
```

```
}
void evenodd(int n)
{
    if(n%2==0)
    {
        printf("the number is even");
    }
    else
    {
        printf("the number is odd");
    }
}
```

8)

```
// sum of two number without argument and with return value
```

```
#include<stdio.h>
```

```
int sum();
```

```
int main()
```

```
{
    sum();
    getch();
}
```

```
int sum()
```

```
{
    int a,b,c;
    printf("enter two number\n ");
    scanf("%d%d",&a,&b);
    c=a+b;
    printf("the sum is %d",c);
    return c;
}
```

9)

```
// sum of two number with argument and without return value
```

```
#include<stdio.h>
```

```
void sum(int,int);
```

```
int main()
```

```
{
    int a,b;
```

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```
printf("enter two number \n");
scanf("%d%d",&a,&b);
sum(a,b);
getch();
}
void sum(a,b)
{
    int c;
    c=a+b;
    printf("the sum is %d",c);
}
```

10)

// sum of two number without argument without return value

```
#include<stdio.h>
void sum();
int main()
{
    sum();
    getch();
}
void sum()
{
    int a,b,c;
    printf("enter two number\n");
    scanf("%d%d",&a,&b);
    c=a+b;
    printf("the sum is %d",c);
}
```

11)

//display this is my first program using function

```
#include<stdio.h>
#include<conio.h>
void first();
void main()
{
    first();
    getch();
}
void first()
{
```

```

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printf("\nThis is my first program\n");
printf("-----\n");
}

```

12)

// sum ,difference,product ,divide and modulo between two numbers using function

```

#include<stdio.h>
int sum(int,int);
int diff(int,int);
int pro(int,int);
int div(int,int);
int rem(int,int);
int main()
{
    int a,b,w,x,y,z,k;
    printf("enter two numbers\n ");
    scanf("%d%d",&a,&b);
    w=sum(a,b);
    x=diff(a,b);
    y=pro(a,b);
    z=div(a,b);
    k=rem(a,b);
    printf("the sum is %d\n",w);
    printf("the difference is %d\n",x);
    printf("the product is %d\n",y);
    printf("the divide is %d\n",z);
    printf("the remainder is %d\n",k);
    getch();
}
int sum(a,b)
{
    int s;
    s=a+b;
    return s;
}
int diff(a,b)
{
    int d;
    d=a-b;
    return d;
}
int pro(a,b)
{
    int p;
    p=a*b;
}

```

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```
        return p;
    }
    int div(a,b)
    {
        int dv;
        dv=a/b;
        return dv;
    }
    int rem(a,b)
    {
        int k;
        k=a%b;
        return k;
    }
}
```

13)

```
//square and square root of given number using function
#include<stdio.h>
#include<math.h>
int sqr(int);
int value(int);
int main()
{
    int a,x,y;
    printf("enter a number\n");
    scanf("%d",&a);
    x=sqr(a);
    y=value(a);
    printf("the square is %d\n",x);
    printf("the squareroot is %d\n",y);
    getch();
}
int sqr(a)
{
    int p;
    p=a*a;
    return p;
}
int value(a)
{
    int b;
    b=sqrt(a);
    return b;
}
}
```

14)

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//temperature given in degree farehnheit into degree celsius using function

```
#include<stdio.h>
void temp(int);
int main()
{
    float c;
    printf("enter any number\n");
    scanf("%f",&c);
    temp(c);
}
void temp(c)
{
    float f;
    f=1.8*c+32;
    printf("the temperature is %f",f);
}
```

15)

//area and circumference of circle using function

```
#include<stdio.h>
void area(int);
void circumference(int);
int main()
{
    int r;
    float pi=3.14;
    printf("enter radius\n");
    scanf("%d",&r);
    area(r);
    circumference(r);
    getch();
}
void area(r)
{
    float a;
    a=3.14*r*r;
    printf("the area of circle is %f\n",a);
}
void circumference(r)
{
    float c;
    c=2*3.14*r;
```



```

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printf("The circumference of circle is %f\n",c);
}

```

16)

//pass or fail {pass=40%} using functon

```

#include<stdio.h>
int per(int);
int main()
{
    int p,x;
    printf("enter any number\n");
    scanf("%d",&p);
    x=per(p);
    printf("the percentage is %d ",x);
    getch();
}
int per(p)
{
    if(p>=40)
    {
        return p;
    }
    else
    {
        return 0;
    }
}

```

17)

// Recursion function

```

#include<stdio.h>
#include<conio.h>
long int fact(int);
int main()
{
    int n,x;
    printf("enter any number\n");
    scanf("%d",&n);
    x=fact(n);
    printf("the factorial is %d",x);
    return 0;
}
long int fact(int n)

```

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```
{  
    if(n==0)  
        return 1;  
    else  
        return (n*fact(n-1));  
}
```