1.Reverse no.

```
#include<stdio.h>
int main()
{
   int n,rem,rev=0,temp;
   printf("enter value of n");
   scanf("%d",&n);
   temp=n;
   while(n!=0)
   {
          rem=n%10;
          rev=rev*10+rem;
          n=n/10;
   }
   printf("reverse of %d is %d",temp,rev);
   return 0;
}
```

2.factorial

```
#include<stdio.h>
int main()
{
   int n,i,fact=1;
   printf("enter value of n=");
   scanf("%d",&n);
   for(i=1;i<=n;i++)
   {
      fact=fact*i;
   }
   printf("factorial of %d is %d",n,fact);
   return 0;
}
```

3.Quadratic Equation

```
#include<stdio.h>
#include<math.h>
int main()
{
   int a,b,c,d,r1,r2;
   printf("enter value of a=\n b=\nc=");
   scanf("%d%d%d",&a,&b,&c);
   d=math.sqrt(b*b-4*a*c);
   r1=(-b+d)/2*a;
   r2=(-b-d)/2*a;
   printf("root1=%d",r1);
   printf("root2=%d",r2);
   return 0;
}
```

4.fibonaci serias

```c
#include <stdio.h>
int main() {
  int i, n;
  int t1 = 0, t2 = 1;
  int nextTerm = t1 + t2;
  printf("Enter the number of terms: ");
  scanf("%d", &n);
  printf("Fibonacci Series: %d, %d, ", t1, t2);
  for (i = 3; i <= n; ++i) {
    printf("%d, ", nextTerm);
    t1 = t2;
    t2 = nextTerm;
    nextTerm = t1 + t2;
  }
Return 0;
}
```

3.1 vowel and cansonat

```c
#include <stdio.h>
int main()
{
 char ch;
 printf("Enter a character=");
 scanf("5c",&ch);
 if(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u'||ch=='A'||ch=='E'||ch=='I'||ch=='O'||ch=='U')
 {
    printf("Enterd charcter is vowel");
 }
 else
 {
    printf("Enterd charcter is  cansonant");
 }

return 0;
}
```

3.largest no.

```c
#include <stdio.h>
int main()
{
 int n1,n2,n3,x,y,z;
 printf("Enter value of n1=");
 scanf("%d",&n1);
```

```
 printf("Enter value of n2=");
 scanf("%d",&n2);
 printf("Enter value of n3=");
 scanf("%d",&n3);
 x=(n1>n2)?n1:n2;
 y=(n2>n3)?n2:n3;
 z=(x>y)?x:y;
 printf("The largest number is %d",z);
return 0;
}
```

4.1*print

```
#include <stdio.h>
int main()
{
 int i,j;
 for(i=1;i<=5;i++)
 {
    for(j=1;j<=i;j++)
  {
    printf("*");
  }
  printf("\n");
 }
return 0;
}
```

2.*print

```
#include <stdio.h>
int main()
{
 int i,j;
 for(i=1;i<=4;i++)
 {
    for(j=5;j>=1;j--)
  {
    printf("*");
  }
  printf("\n");
 }
return 0;
}
```

5.1 Area of square

```
#include <stdio.h>
void square()
{
   int s,area;
   printf("Enter value of s=");
```

```
   scanf("%d",s);
   area=s*s;
   printf("Area of Circle is %d",area);
}
int main()
{
   void square();
   return 0;
}
```

5.2 factorial no.using recursive function

```
#include <stdio.h>
int fact(int n)
{
  if(n==1)
  {
     return 1;
  }
  else
  {
     return n*fact(n-1);
  }
}
int main()
{
   int n;
   printf("Enter value of N=");
   scanf("%d",&n);
   printf("factorial of %d is %d",n,fact(n));
   return 0;
}
```

3.square root abs()

```
#include <stdio.h>
#include<math.h>
int root()
{
   int n,a,r;
   printf("Enter a Number:");
   scanf("%d",&n);
   a=abs(n);
   r=sqrt(a);
   printf("Square root is %d",r);
}
int main()
{
   root();
   return 0;
}
```

6.Roll no and name

```
#include <stdio.h>
int main()
{
   int r[10],i;
   char n[10][20];
   for(i=0;i<=9;i++)
   {
      printf("Enter Roll no=");
      scanf("%d",&r[i]);
      printf("Enter name=");
      scanf("%s",n[i]);
   }
   for(i=0;i<=9;i++)
   {
      printf("%d\t%s\n",r[i],n[i]);
   }
   return 0;
}
```

6.2 matrix

```
#include <stdio.h>
int main()
{
   int a[3][3],i,j;
   for(i=0;i<2;i++)
   {
      for(j=0;j<=2;j++)
      {
         printf("Enter a[%d][%d]:",i,j);
         scanf("%d",&a[i][j]);
      }
   }
   for(i=0;i<2;i++)
   {
      for(j=0;j<=2;j++)
      {
         printf("%d\t",a[i][j]);
      }
      printf("\n");
   }
      return 0;
}
```

6.c Accending order

```
#include <stdio.h>
int main()
{
   int a[5],i,j,temp;
   for(i=0;i<=4;i++)
   {
      printf("Enter a[%d]",i);
      scanf("%d",&a[i]);
   }
   for(i=0;i<=4;i++)
   {
      for(j=i+1;j<=4;j++)
      {
         if(a[i]>a[j])
         {
            temp=a[i];
            a[i]=a[j];
            a[j]=temp;
         }
      }
   }
   printf("Array in ascending order:\n");
   for(i=0;i<=4;i++)
   {
      printf("%d\n",a[i]);
   }
   return 0;
}
```

7.string is palindrome

```
#include <stdio.h>
#include <string.h>
int main()
{
   int len;
   char a[50],b[20];
   printf("Enter name");
   scanf("%s",&a);
   printf("Name is %s",a);
   len=strlen(a);
   printf("length of the string is %d",len);
   strcpy(b,a);
   printf("copied string is %s\n",b);
```

```
    strrev(b);
    printf("reversed string is %s\n",b);
    if(strcmp(a,b)==0)
    {
        printf("string is palindrome");
    }
   else
   {
      printf("string is not palindrome");
   }
   return 0;
}
```

8.b Addition and subtraction

```
#include <stdio.h>

int main()
{
    int a,b;
    int sum(int*p1,int*p2);
    int diff(int*p1,int*p2);
    printf("Enter two number:");
    scanf("%d%d",&a,&b);
    sum(&a,&b);
    diff(&a,&b);
    return 0;
}
int sum(int*p1,int*p2)
{
    int c;
    c=*p1+*p2;
    printf("The sum is %d",c);
}
int diff(int*p1,int*p2)
{
    int d;
    d=*p1-*p2;
    printf("\n the difference is %d",d);
}
```

9.copy the content

```
#include <stdio.h>

int main()
{
  FILE*fp,fp1;
  char c;
  fp=fopen("test.txt","r");
  fp1=fopen("test.txt","w");
  while(!feof(fp))
  {
     c=get(fp);
     fputc(c,fp1);
  }
  fclose(fp1);
  fclose(fp);
  printf("Displaying data from the new file:\n");
  while(!feof(fp1))
  {
     printf("%c",getc(fp1));
  }
  fclose(fp1);
  return 0;
}
```

9.2 Title,Author,subject,Book id

```
#include <stdio.h>
struct student
{
   char title[20],author[30],subject[30];
   int id;
};
int main()
{
   int i;
   struct student s[2];
   for(i=0;i<=1;i++)
   {
      printf("Enter Title:");
      scanf("%s",&s[i].title);
      printf("Enter author:");
```

```
        scanf("%s",&s[i].author);
        printf("Enter subject:");
        scanf("%s",&s[i].subject);
        printf("Enter book:");
        scanf("%d",&s[i].id);
    }
    for(i=0;i<=1;i++)
    {
        printf("Title is %s",s[i].title);
        printf("\nAuthor is %s",s[i].author);
        printf("\nsubject is %s",s[i].subject);
        printf("\nBook ID is %d",s[i].id);
    }
    return 0;
}
```