```
//1.Sum of two numbers
                                               if(a>b)
//Predefined method
#include<stdio.h>
                                                if(a>c)
#include<conio.h>
                                                 printf("A is bigger");
void main()
                                               else if(b>c)
int a=10,b=20,c=0;
                                                printf("B is bigger");
clrscr();
                                               else
                                                 printf("C is bigger");
c=a+b;
                                               getch();
printf("Sum = %d",c);
getch();
                                               //5.Switch statement(with break)
                                               #include<stdio.h>
//2.Addition of 2 numbers
//User-defined method
                                               #include<conio.h>
#include<stdio.h>
                                               void main()
#include<conio.h>
void main()
                                               int choice;
                                               clrscr();
int a,b,c;
                                               printf("Enter choice number ");
                                               scanf("%d",&choice);
clrscr();
scanf("%d%d",&a,&b);
                                               switch(choice)
c=a+b;
printf("Sum = %d",c);
                                               case 1: printf("One");
getch();
                                                     break;
                                               case 2: printf("Two");
                                                     break;
//3.Simple If statement
                                               case 3: printf("Three");
#include<stdio.h>
                                                     break;
                                               default: printf("Enter numbers 1 to 3");
#include<conio.h>
void main()
                                               getch();
int a,b;
clrscr();
scanf("%d",&a);
                                               //6.Switch statement(without break)
if(a>=18)
                                               #include<stdio.h>
printf("U are eligible for vote");
                                               #include<conio.h>
                                               void main()
printf("U are not eliglible for vote");
getch();
                                               int choice;
}
                                               clrscr();
                                               printf("Enter choice value ");
                                               scanf("%d",&choice);
//4.Nested If Else statement
                                               switch(choice)
#include<stdio.h>
#include<conio.h>
                                               case 1: printf("One");
                                               case 2: printf("Two");
void main()
                                               case 3: printf("Three");
                                               default:printf("Enter numbers 1 to 3");
int a,b,c;
clrscr();
                                               getch();
scanf("%d%d%d",&a,&b,&c);
```

//7.for loop	clrscr();
//to print natural numbers 1-50	for(;;)
#include <stdio.h></stdio.h>	{
#include <conio.h></conio.h>	if(i>100)
void main()	break;
{	printf("%d\n",i);
	i=i+2;
int i;	, '
clrscr();	}
for(i=1;i<=50;i++)	getch();
printf("%d\n",i);	}
getch();	
}	//11.infinite for loop
	//to print your name
//8.for loop	#include <stdio.h></stdio.h>
//to print even numbers 1-50	#include <conio.h></conio.h>
#include <stdio.h></stdio.h>	void main()
#include <conio.h></conio.h>	
	{ alman().
void main()	clrscr();
<b>{</b>	for(;;)
int i;	printf("Raja");
clrscr();	}
for(i=1;i<=50;i++)	
{	//12.while loop
if(i%2==0)	//to print welcome
printf("%d\n",i);	#include <stdio.h></stdio.h>
}	#include <conio.h></conio.h>
getch();	void main()
}	{
//0.0	int i=1;
//9.for loop with break	clrscr();
//to print even numbers 1-100	while(i<=10)
#include <stdio.h></stdio.h>	{
#include <conio.h></conio.h>	printf("\n Welcome");
void main()	i=i+1;
{	}
int i=2;	getch();
clrscr();	}
**	,
for(;;i=i+2)	//12 1. 1.9.1
{ '''' 100\	//13.do while loop
if(i>100)	//to print welcome
break;	#include <stdio.h></stdio.h>
printf("%d\n",i);	#include <conio.h></conio.h>
}	void main()
getch();	{
}	int i=0;
,	clrscr();
//10.for loop with break	do
//to print odd numbers 1-100	
-	{ printf(!!\n Walaama!!) }
#include <stdio.h></stdio.h>	printf("\n Welcome")
#include <conio.h></conio.h>	i=i+1;
void main()	}while(i<10);
{	getch();
int i=1:	}

```
//14.Biggest of two numbers
                                               if(a[i][j]>max)
#include<stdio.h>
                                               max=a[i][j];
#include<conio.h>
void main()
                                               rowmax[i]=max;
int a,b;
                                               printf("Given Matrix\n");
                                               for(i=0;i<3;i++)
clrscr();
printf("Enter the two numbers \n");
scanf("%d%d",&a,&b);
                                                for(j=0;j<3;j++)
                                                printf("%d\t",a[i][j]);
                                                printf("\n");
if(a>b)
printf("\nThe biggest number is
%d",a);
                                               for(i=0;i<3;i++)
                                               printf("\nMaximum element
printf("\nThe biggest number is
                                               %d",rowmax[i]);
%d",b);
                                               getch();
getch();
                                               //17.Addtion of matrix 3x3
                                               #include<stdio.h>
                                               #include<conio.h>
//15.postive or negative or zero
#include<stdio.h>
                                               void main()
#include<conio.h>
void main()
                                               int i,j,a[3][3],b[3][3],c[3][3];
                                               clrscr();
                                               printf("Enter A matrix");
int a;
clrscr();
                                               for(i=0;i<=2;i++)
printf("Enter a number");
                                               for(j=0;j<=2;j++)
scanf("%d",&a);
                                               scanf("%d",&a[i][j]);
                                               printf("Enter B matrix");
if(a>0)
                                               for(i=0;i<=2;i++)
printf("the given number is postive");
                                               for(j=0;j<=2;j++)
                                               scanf("%d",&b[i][j]);
else if(a<0)
printf("the given number is negative");
                                               printf("Aaddtion of matrix \n");
                                               for(i=0;i<=2;i++)
printf("the given number is zero");
                                               for(j=0;j<=2;j++)
getch();
                                               c[i][j]=a[i][j]+b[i][j];
                                               printf("%d\t",c[i][j]);
//16.Maximum number in the row 3x3
#include<stdio.h>
                                               printf("\n\n");
#include<conio.h>
void main()
                                               getch();
int i,j,a[3][3],max=0,rowmax[3];
                                               //18.Multiplication of 3 x 3 matrix
clrscr();
printf("enter the 9 elements");
                                               #include<stdio.h>
                                               #include<conio.h>
for(i=0;i<3;i++)
                                               void main()
for(j=0;j<3;j++)
                                               int i,j,k,a[3][3],b[3][3],c[3][3];
scanf("%d",&a[i][j]);
                                               clrscr();
```

```
printf("Enter A matrix");
                                               #include<conio.h>
for(i=0;i<=2;i++)
                                               void main()
for(j=0;j<=2;j++)
scanf("%d",&a[i][j]);
                                               int a,b,t;
                                               clrscr();
                                               printf("\nEnter two numbers");
printf("Enter B matrix");
                                               scanf("%d%d",&a,&b);
for(i=0;i<=2;i++)
for(j=0;j<=2;j++)
                                               printf("\n After swapping
                                               a=\%d,b=\%d'',a,b);
scanf("%d",&b[i][j]);
                                               t=a;
for(i=0;i<=2;i++)
                                               a=b;
                                               b=t;
for(j=0;j<=2;j++)
                                               printf("\n After swapping
                                               a=\%d,b=\%d'',a,b);
c[i][j]=0;
                                               getch();
for(k=0;k<=2;k++)
                                               }
                                               //21.To print your name 5 times
c[i][j]=c[i][j]+a[i][k]*b[k][j];
                                               #include<stdio.h>
}}}
                                               #include<conio.h>
printf("Multiplication of A x B is\n");
                                               void main()
for(i=0;i<=2;i++)
                                               char name[]="Robinson";
for(j=0;j<=2;j++)
                                               int i,j;
printf("%d\t",c[i][j]);
                                               clrscr();
printf("\n");
                                               for(j=1;j<=5;j++)
                                                for(i=0;i<=7;i++)
                                                printf("%c",name[i]);
getch();
                                               getch();
                                               }
//19.Transpose of 3 x 3 matrix
#include<stdio.h>
                                               //22.area of triangle
                                               #include<stdio.h>
#include<conio.h>
void main()
                                               #include<conio.h>
                                               void main()
int i,j,a[3][3];
clrscr();
                                               float a,b,c,s,area;
printf("Enter A matrix");
                                               clrscr();
                                               scanf("%f%f%f",&a,&b,&c);
for(i=0;i<=2;i++)
for(j=0;j<=2;j++)
                                               s=(a+b+c)/2;
scanf("%d",&a[i][j]);
                                               area = sqrt(s*(s-a)*(s-b)*(s-c));
printf("Transpose of Matrix is\n");
                                               printf("Area = %f",area);
for(i=0;i<=2;i++)
                                               getch();
for(j=0;j<3;j++)
printf("%d\t",a[j][i]);
                                               //23.Fahrenheit to celius
printf("\n");
                                               #include<stdio.h>
                                               #include<conio.h>
                                               void main()
getch();
//20.To Interchange values of 2 variables
                                               float faren, cel;
#include<stdio.h>
                                               clrscr();
```

```
printf("Enter fahernheit value\n");
                                               //27.Fibonacci series(15 terms)
scanf("%f",&faren);
                                               #include<stdio.h>
cel=(faren - 32)*(5.0/9.0);
                                               #include<conio.h>
printf("Celsius = %f",cel);
                                               void main()
getch();
                                               int i,n,f1,f2,f3;
                                               f1=0;
//24.Convert the time in
                                               f2=1;
//hours,minutes,seconds to seconds
                                               clrscr();
#include<stdio.h>
                                               printf("Enter n value :");
                                               scanf("%d",&n);
#include<conio.h>
                                               printf("\n%d",f1);
void main()
                                               printf("\n%d",f2);
int hr,mt,sec,totsec;
                                               for(i=1;i<=n-2;i++)
clrscr();
printf("Enter Hour : Minutes :
                                               f3=f1+f2;
                                               printf("\n%d",f3);
Seconds\n");
scanf("%d%d%d",&hr,&mt,&sec);
                                               f1=f2;
totsec=(hr*60*60)+(mt*60)+sec;
                                               f2=f3;
printf("Total seconds : %d\t",totsec);
getch();
                                               getch(); }
                                               //28.To count no.fo vowels present in
//25.Biggest of 2 nos. without if control
                                               your name
#include<stdio.h>
                                               #include<stdio.h>
#include<conio.h>
                                               #include<conio.h>
#include<math.h>
                                               #include<string.h>
void main()
                                               void main()
                                               int i,j,len,count=0;
int a,b,big;
clrscr();
                                               char s[50];
printf("Enter two numbers\n");
                                               char vowels[]="aeiou";
scanf("%d%d",&a,&b);
                                               clrscr();
big=((a+b)+abs(a-b))/2;
                                               printf("\n Enter your name :");
printf("Biggest number is %d",big);
                                               scanf("%s",s);
                                               len=strlen(s);
getch();
                                               for(i=0;i<5;i++)
\frac{1}{26}. sum=1+2+3+4+.....100 find sum
                                                 for(j=0;j<len;j++)
                                                if(s[j]==vowels[i])
#include<stdio.h>
#include<conio.h>
                                                 count=count+1;
#include<math.h>
                                               printf("\n No.of Vowels : %d",count);
void main()
                                               getch();
int i,sum=0;
clrscr();
                                               //29.Palindrome or not
for(i=1;i<=100;i++)
sum=sum+i;
                                               #include<stdio.h>
printf("Sum is : %d",sum);
                                               #include<string.h>
getch();
                                               void main()
                                               char name[50];
                                               char rev[50];
```

```
int b:
clrscr();
                                              getch();
printf("\n Enter your name :");
scanf("%s",name);
strcpy(rev,name);
                                              //32.Increment and Decrement
strrev(name);
                                              Operators
b=strcmp(name,rev);
                                              #include<stdio.h>
                                              void main()
if(b!=0)
printf("\n Not Palindrome");
                                              int a=30,b=40;
printf("\n Palindrome");
                                              int c,d;
getch();
                                              clrscr();
                                              printf("\n%d %d",a++,++a);
                                              printf("\n%d %d",--a,b--);
//30.Average of 10 numbers using array
                                              printf("\n%d %d",a++,++b);
#include<stdio.h>
                                              c=a+++a--;
#include<string.h>
                                              d=a-- - b--;
                                              printf("\n%d %d",c,d);
void main()
                                              getch();
int a[10],i;
                                              }
float sum=0,avg=0;
                                              //33.Pointer Variables
clrscr();
for(i=0;i<10;i++)
                                              #include<stdio.h>
                                              #include<conio.h>
scanf("%d",&a[i]);
                                              void main()
sum=sum+a[i];
                                              int *p,x,i=30;
avg=sum/10;
                                              p=&i;
printf("Average of 10 numbers
                                              x=10;
:%f",avg);
                                              clrscr();
                                              printf("\nValue of x %d",x);
getch();
                                                                                  //10
                                              printf("\nAddress of x %d",&x);
                                                                                  //-14
                                              printf("\nAddress of i %d",p); //-16
//31.Given number is in Fibonacci
                                              printf("\nValue of i %d",*p);
                                              printf("\nAddress of p %d",&p); //-12
sequence or not
#include<stdio.h>
                                              getch();
#include<string.h>
void main()
                                              //34.Array Pointers
                                              #include<stdio.h>
int first=0;
int second=1,third=0;
                                              #include<conio.h>
                                              void main()
int n,i;
clrscr();
printf("\nEnter the number");
                                              int a[]=\{20,10,90\};
scanf("%d",&n);
                                              clrscr();
                                                                         //20
                                              printf("\n %d",*a);
i=n-1;
for(i=0;i<=n-1;i++)
                                              printf("\n %d",a[0]);
                                                                         //20
                                              printf("\n %d",*(&a[0]));
                                                                           //20
                                              printf("\n%d",&a[0]);
third=first+second;
                                                                          //-16
                                              printf("\n %d",&a[1]);
if(third==n)
                                                                          //-14
printf("Is in fibonacci sequence");
                                              printf("\n %d",&a[2]);
                                                                          //-12
first=second;
                                              getch();
second=third;
                                              }
```

	int div,num,sum=0;
//35.To find factorial of	clrscr();
//given numbers using function	for(num=1;num<=100;num++)
#include <stdio.h></stdio.h>	{
int factorial(int n)	sum=0;
{	for(div=1;div <num;div++)< td=""></num;div++)<>
int i,f=1; // loacal or formal variables	if(num%div==0)
for(i=1;i<=n;i++)	sum=sum+div;
f=f*i;	if(sum>num)
return f;	printf("\n %d is Abudant
}	number",num);
void main()	}
{	getch();
int n,fac; // actual variables	}
int factorial(int); // function prototype	,
clrscr();	//38.Call by Value using function
printf("Enter factorial number");	#include <stdio.h></stdio.h>
scanf("%d",&n);	#include <conio.h></conio.h>
fac=factorial(n); // function calling	void swap(int x,int y)
printf("Factorial of given number	{
is:%d",fac);	int temp; //formal variables
	<u>-</u> :
getch();	temp=x;
}	x=y;
1/26 A way of Strangtones	y=temp;
//36.Array of Structures	printf("\n After swapping
//to get 5 student marks and total	%d%d",x,y);
#include <stdio.h></stdio.h>	}
struct student	void main()
{ • 4 P 4 4 P	{
int rollno,total;	int a=10,b=20; // actual variables
<pre>}x[5]; //array structure objects</pre>	clrscr();
void main()	printf("\n Before swapping
<b>{</b>	%d%d",a,b);
int i;	swap(a,b); //function calling by value
clrscr();	getch();
for(i=0;i<5;i++)	}
{	//20 75
printf("\nEnter rollno and total mark");	//39.Perfect number between 1-100
scanf("%d",&x[i].rollno);	#include <stdio.h></stdio.h>
scanf("%d",&x[i].total);	void main()
}	{
for(i=0;i<5;i++)	int div,num,sum=0;
{	clrscr();
<pre>printf("\nRollno :%d",x[i].rollno);</pre>	for(num=1;num<=100;num++)
<pre>printf("\tTotal :%d",x[i].total);</pre>	{
}	sum=0;
getch();	for(div=1;div <num;div++)< td=""></num;div++)<>
}	if(num%div==0)
	sum=sum+div;
//37.Abundant number between 1-100	if(sum==num)
#include <stdio.h></stdio.h>	printf("\n %d is Perfect
void main()	number",num);
{	<pre>} getch(); }</pre>

//40.Binary to Decimal conversion	clrscr();
#include <stdio.h></stdio.h>	for(i=1;i<=5;i++)
#include <math.h></math.h>	{
#include <conio.h></conio.h>	for(j=1;j<=i;j++)
void main()	printf("%d",i);
{	printf("\n");
long int n,dec,i;	}
clrscr();	getch();
i=dec=0;	}
<pre>printf("Enter the binary number");</pre>	,
scanf("%ld",&n);	//43.Star Pattern2
while(n!=0)	#include <stdio.h></stdio.h>
\(\text{minc(n:-0)}\)	#include < stato.h>
$\frac{1}{da_0 - da_0 + (n^0 / 10) * naw(2 i)}$	
dec=dec+(n%10)*pow(2,i);	void main()
n=n/10;	{
i=i+1;	int i,j;
}	clrscr();
printf("The decimal number is	for(i=5;i>=1;i)
%d",dec);	{
getch();	for(j=1;j<=i;j++)
}	printf("*");
	printf("\n");
	}
//41.Decimal to Binary Conversion	getch();
#include <stdio.h></stdio.h>	}
#include <math.h></math.h>	•
#include <conio.h></conio.h>	//44.Star Pattern3
void main()	void main()
{	{
int i,j,n;	int i,j;
int b[15];	clrscr();
clrscr();	for(i=5;i>=1;i)
i=0;	101 (1-3,1>-1,1)
	{ for(:-1.:/-:.:
printf("Enter the number");	for(j=1;j<=i;j++)
scanf("%d",&n);	printf("%d",i);
while(n!=0)	printf("\n");
{	}
b[i]=n%2;	getch();
n=n/2;	}
i=i+1;	
}	//45.Star Pattern4
<pre>printf("The binary value is");</pre>	void main()
i=i-1;	{
for(j=i;j>=0;j)	int i,j;
<pre>printf("%d",b[j]);</pre>	clrscr();
getch();	for(i=15;i>=1;i)
}	{
	for(j=1;j<=i;j++)
//42.Star Pattern1	printf("%d",i);
#include <stdio.h></stdio.h>	printf("\n");
#include <conio.h></conio.h>	}
void main() {	getch();
int i,j;	ξυτοπ( <del>)</del> ,
1111 1919	S