1)wap to find sum of 2 numbers.

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int a,b,sum;
    printf("enter a number");
    scanf("%d",&a);
    printf("enter a number");
    scanf("%d",&b);
    sum = a+b;
    printf("sum is : %d",sum);
    getch();
}
```

```
PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter 2 number : 2
2
sum is : 4
PS C:\Users\niraj\OneDrive\Documents\this> [
```

2) wap to input a number and display its last digit.

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{

int a,c;
printf("enter a number");
scanf("%d",&a);
c=a%10;
printf("last digit is : %d",c);
getch();
}
```

```
PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter 3 digit number123
last digit of a number is : 3
PS C:\Users\niraj\OneDrive\Documents\this> [
```

3) wap to input a number and display "ok" if divisible by 5.

```
code:
```

```
#include<stdio.h>
#include<conio.h>
int main(){
int num;
printf("enter a number");
scanf("%d",&num);
if(num%5==0){
printf("ok");
}
else{
printf("not ok");
}
getch();
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c

PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe

enter a number : 55

ok

PS C:\Users\niraj\OneDrive\Documents\this> []
```

4)wap to input any two numbers and display their power(x,y)= x^y .

Code:

```
#include<stdio.h>
#inlcude<conio.h>
int main(){
  int a,b;
  printf("enter any two number");
  scanf("%d%d",&a,&b);
  int c= pow(a,b);
  printf("%d",c);
  getch();
}
```

```
PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter any two number : 2
3
reqired answer is : 8
PS C:\Users\niraj\OneDrive\Documents\this> []
```

5)wap to input a number and find it is even or odd.

Code:

```
#include<stdio.h>
#include<conio.h>
int main()
{
  int num;
  printf("enter a number");
  scanf("%d",&num);
  num%2==0? printf("even") :printf("odd");
  getch();
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c

PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe

enter a number : 5

odd

PS C:\Users\niraj\OneDrive\Documents\this> []
```

6)wap to input 3 numbers and display the smallest one .

Code:

```
#include<stdio.h>
#include<conio.h>
int main(){
  int a,b,c;
  pritntf("enter any three number");
  scanf("%d%d",&a,&b);
  if(a<b && a<c){
    printf("%d is smallest number is %d",a);}
  else if (b<a && b<c){
    printf("%d is smallest",b);}
  else{printf("%d is smallest",c);}
  getch();
}</pre>
```

```
PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter 3 number : 2
3
4
smallest number is : 2
PS C:\Users\niraj\OneDrive\Documents\this> [
```

7) wap to input 3 digit number and display its first number.

Code:

```
#include<stdio.h>
#include<conio.h>
int main(){
int num;
printf("enter a 3 digit number\t");
scanf("%d",&num);
int c=num/100;
printf("first number is %d",c);
getch();
}
```

```
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter a 3 digit number : 123
first digit of number is : 1
PS C:\Users\niraj\OneDrive\Documents\this> []
```

8)wap to input 3 digit number and display their sum.

Code:

```
#include<stdio.h>
#include<conio.h.
int main(){
  int num;
  printf("enter a 3 digit number\t");
  scanf("%d",&num);
  int num1=num/100;
  int num2=num%10;
  int num3= (num/10)%10;
  int sum= num1+num2+num3;
  printf("sum is %d",sum);
  getch();
}</pre>
```

```
PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter a 3 digit number : 345
sum is : 12
PS C:\Users\niraj\OneDrive\Documents\this> [
```

9)wap to input 3 digit number and display middle digit.

Code:

```
#include<stdio.h>
#include<conio.h>
int main(){
  int num;
  printf("enter a 3 digit number");
  scanf("%d",&num);
  int midd=(num/10)%10;
  printf("middle digit is %d",midd);
  getch();
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c

PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe

enter a 3 digit number : 234

middle number is : 3

PS C:\Users\niraj\OneDrive\Documents\this> []
```

10) wap to input 3 digit number and display "ok" if all the digits are same else display "not ok".

Code:

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

int main(){
  int num,num1,num2,num3;
  printf("enter a 3 digit number");
  scanf("%d",&num);
  num1=num%10; num2=num/100; num3=(num/10)%10;
  if(num1==num2 && num2==num3){
    printf("ok");}
  else {
    printf("not ok");
    getch();
  }
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c

PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe

enter a 3 digit number : 333

ok

PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe

enter a 3 digit number : 123

not ok

PS C:\Users\niraj\OneDrive\Documents\this> []
```

11)wap to input 3 numbers and display the largest number.

Code:

```
#include<stdio.h>
#include<conio.h.
int main(){
  int a,b,c;
  printf("enter any three number");
  scanf("%d%d%d",&a,&b,&c);
  if(a>b && a>c){
  printf("largest number is %d",a);}
  else if (b>a && b>c){
  printf("largest number is %d",b);
  else{
  printf("largest number is %d",c);
  getch();
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c

PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe

enter any three number :2

3

45

largest number is : 45

PS C:\Users\niraj\OneDrive\Documents\this> []
```

12)wap to input age of a person and display message accuracy to the following conditions.

AGE	MESSAGE
1-5	toddler
6-12	young
13-19	teenager
>19	adult

Code:

```
#include<stdio.h>
#include<conio.h>
int main(){
int age;
printf("enter your age\t");
scanf("%d",&age);
if(age > = 1\&\&age < = = 5){
printf("toddler");}
else if (age>=6 && age <=12{
printf("young");}
else if (age \geq 13 \&\& age \leq 19)
printf("teenager");
else {
printf("adult");}
getch();
}
```

```
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter your age : 3
toddler
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter your age : 8
young
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter your age : 15
teenager
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter your age : 15
teenager
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter your age : 100
adult
PS C:\Users\niraj\OneDrive\Documents\this> [
```

13) wap to input percentage mark and display their grade.

Percentage	Grade		
>=80	Distinction		
>=60 and <80	First div		
>=50 and <60	Second div		
>=40 and <50	Third div		
<40	Failed		

Code:

```
#include<stdio.h>
#include<conio.h>
int main(){
int per;
printf("enter percentage");
scanf("%d",&per);
if (per > = 80){
printf("Distinction");}
else if (per>=60 \&\& per <80){
printf("first div");}
else if (per>50&&per<=60){
printf("second div");}
else if(per>=40\&\&per<50){
printf("third div");}
else {
printf("failed");
getch();
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter yur percentage : 77
first division
PS C:\Users\niraj\OneDrive\Documents\this> [
```

14)wap to input sale amount and display commission amount based on following data .

Sale amount	Commission
<1000	0%
>=1000 and <20000	10%
>=20000	15%

code:

```
#include<stdio.h>
#include<conio.h>
int main(){
  int amt,c;
  printf("enter sale amount \t");
  scanf("%d",&amt);
  if(amt<1000){
  printf("%d",0);}
  else if (amt>=1000 && amt <20000){
  c=amt*10/100;
  printf("commission amt is %d",c);}
  else {
  c=amt*15/100;
  printf("commission amt is %d",c);}
  getch();
}</pre>
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c

PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe

enter sale amount : 200

PS C:\Users\niraj\OneDrive\Documents\this> []
```

15)wap to input a number and display day on following condition .(use switch).

```
#include<stdio.h>
#include<conio.h>
int main(){
int day;
printf("enter a number (1-7));
scanf("%d",&day);
switch(day){
case 1:
printf("sunday");
break:
case 2:
printf("monday");
break;
case 3
printf("tuesday");
break;
case 4:
printf("wednesday");
break;
case 5:
printf("thurday");
break:
                             output:
case 6:
printf("friday");
break:
case 7:
printf("satuday");
                                    PROBLEMS
                                             OUTPUT
                                                      DEBUG CONSOLE
                                                                    TERMINAL
break:
                                    PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c
default:
                                    PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
                                    enter a number from 1-7 : 7
printf("invalid");
break;
                                    PS C:\Users\niraj\OneDrive\Documents\this> ☐
return 0;
```

16) wap to input a character and display word as mentioned below: [a=apple,b=ball,c=cat,d=dog]

```
#include<stdio.h>
#include<conio.h>
int main(){
char ch;
printf("enter a charcter (a-d));
scanf("%c",&ch;
switch(ch){
case 'a':
printf("apple");
break;
case 'b':
printf("ball");
break:
case 'c'
printf("cat");
break;
case 'd':
printf("dog");
break;
default:
printf("invalid");
break;
return 0;
```

```
PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter a character from a-d : c
cat
PS C:\Users\niraj\OneDrive\Documents\this> [
```

17)MENU BASED PROGRAM:

```
My program list
1)sum of 2 numbers.
2)even or odd
3)area of circle
enter your choice
```

```
#include<stdio.h>
int main()
int num,a,b,s;
float q;
printf("My program list");
printf("\n1)sum of 2 numbers");
printf("\n2)even of odd");
printf("\n3)area of circle");
printf("enter a number(1-3)");
scanf("%d",&num);
switch(num){
case 1:
printf("enter two numbers");
scanf("%d%d",&a,&b);
s=a+b;
printf("sum is %d",s);
break;
case 2:
printf("enter a number");
scanf("%d",&a);
if(a\%2==0){
printf("even");}
else{
printf("odd");}
```

```
case 3:
printf("enter radius");
scanf("%d",&a);
q=3.14*a*a;
printf("radius is %f",q);
break;
default:
printf("invalid");
break;
}
return 0;
}
```

```
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
My program list
1)sum of two number
2) even or odd
3)area of circle enter your choice 1-3 : 1
enter a number : 5
enter a number : 5
sum is : 10
PS C:\Users\niraj\OneDrive\Documents\this> []
```

Indreni college a)simple interest b)last digit of a given number enter your choice

```
#include<stdio.h>
int main(){
char ch:
int p,t,r,si,num;
printf("Indreni college");
printf("\ta)Simple interest");
printf("\tb)last digit of given number");
printf("enter your choice (a or b)");
scanf("%c",ch);
switch(ch){
case 'a':
printf("enter principle");
scanf("%d",&p);
printf("enter time");
scanf("%d",&t);
printf("enter rate");
scanf("%d",&r);
si=p*t*r/100;
printf("simple interest is %d",si);
break;
```

output:

```
case 'b':
printf("enter a number");
scamf("%d",&num);
p=num%10;
printf("last digit of a number
is%d",p);
break;
defaut:
printf("invalid");
break;
}
```

return 0;}

```
PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
My program list
a)simple interest
b) last digit of a given number enter your choice a-b: a enter principle: 2000
enter a time: 2
enter a rate: 2
simple interest is: 80
PS C:\Users\niraj\OneDrive\Documents\this> []
```

19)wap to print fibonacci series (0,1,1,2,3,5,8,13)

code:

```
#include<stdio.h>
#include<conio.h>
int main(){
int n=0;
int n1=1;
printf("%d\t",n);
printf("%d\t",n1);
int i,c;
for(i=1;i<=6;i++){
c=n+n1;
n=n1;
n1=c;
printf("%d\t",c);
}
return 0;
}
```

```
PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
0  1  1  2  3  5  8  13
PS C:\Users\niraj\OneDrive\Documents\this> [
```

20)wap to print the multiplication table of given number.

Code:

```
#include<stdio.h>
#include<conio.h>
int main(){
  int num;
  printf("enter a number");
  scanf("%d",&num);
  int i;
  for(i=1;i<=10;i++){
  int c;
  c=num*i;
  printf("%d multiply %d= %d",num,i,c);
  }
  return 0;
}</pre>
```

```
PROBLEMS
          OUTPUT
                    DEBUG CONSOLE
                                   TERMINAL
PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter a number : 10
10 multiply 1 = 10
10 multiply 2 = 20
10 multiply 3 = 30
10 multiply 4 = 40
10 multiply 5 = 50
10 multiply 6 = 60
10 multiply 7 = 70
10 multiply 8 = 80
10 multiply 9 = 90
10 multiply 10 = 100
PS C:\Users\niraj\OneDrive\Documents\this> [
```

21)wap to input name roll number and age of user and print if they can vote or not (using array).

Code:

```
#include<stdio.h>
#include<conio.h>
int main{
char first name[20];
char last name[20];
int age,roll_number;
printf("enter first name");
scanf("%s",&first_name);
printf("enter last name");
scanf("%s",&last_name);
printf("enter roll number");
scanf("%d",&roll_number");
printf("enter age ");
scanf("%d",&age);
if(age<18){
printf("you are minor and you are not eligible to vote");
else{
printf("you are adult and you can vote );}
retun 0;
```

```
PS C:\Users\niraj\OneDrive\Documents\this> gcc ok.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter your first name : Nirajan
enter your last name : Thapa
enter your age : 18
hello Nirajan ! you are adult and you can vote..
PS C:\Users\niraj\OneDrive\Documents\this> [
```

22)wap to input 10 numbers and find their sum.

Code:

```
#include<stdio.h>
int main(){
int num;
printf("enter 10 numbers: ");
int i,sum=0;
for(i=1;i<=10;i++){
    scanf("%d",&num);
    sum=sum+num;
}
printf("sum is : %d",sum);
return 0;
}</pre>
```

```
PS C:\Users\niraj\OneDrive\Documents\this> gcc sum.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
enter 10 numbers : 1
2
3
4
5
1
2
3
4
5
sum is : 30
PS C:\Users\niraj\OneDrive\Documents\this>
```

```
23)wap to print the given series : a)1,2,3,4,5,6,7,8,9,10,11.........50.
```

```
Code:
```

output:

```
#include<stdio.h>
int main(){
int i;
for(i=1;i<=100;i++){
  printf("%d",i);
}
return 0;
}</pre>
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\niraj\OneDrive\Documents\this> gcc hello.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
     2
                4 5
                                                     9
                                                            10
                                                                   11
                                                                                 13
                                                                                              15
                                                                                                     16
                                                                                                            17
                                                                                                                   18
                                                                                                                         19
                                                                                                                                20
           3
                                                                          12
                                                                                       14
             23
                          25
                                     27
                                                     29
1
      22
                                              28
                                                            30
                                                                   31
                                                                          32
                                                                                       34
                                                                                              35
                                                                                                            37
                                                                                                                                40
           43
                 44
                        45
PS C:\Users\niraj\OneDrive\Documents\this>
```

b) 3,7,11,15,19.....,59.

code:

```
#include<stdio.h>
int main(){
  int n=3;
  while(n<=59){
  printf("%d",n);
  n=n+4;}
  return 0;
}</pre>
```

```
PS C:\Users\niraj\OneDrive\Documents\this> gcc h.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
3 7 11 15 19 23 27 31 35 39 43 47 51 55 59
PS C:\Users\niraj\OneDrive\Documents\this> [
```

```
c) 2,4,6,8,10.....24.
```

```
code:
#include<stdio.h>
int main(){
int n=2;
while (n \le 24)
printf("%d",n);
n=n+2;
}
return 0;
}
output:
PS C:\Users\niraj\OneDrive\Documents\this> gcc sum.c
PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
                              10
                                      12
                                                     16
                                                             18
                                                                     20
                                                                            22
                                                                                    24
               6
                       8
PS C:\Users\niraj\OneDrive\Documents\this> \[ \]
```

```
d) 1,4,9,16.....100.
code:
#include<stdio.h>
int i;
for(i=1;i \le 10;i++)
                                         output:
printf("%d",i*i);
                        PROBLEMS
                                  OUTPUT
                                           DEBUG CONSOLE
                                                          TERMINAL
return 0;
                        PS C:\Users\niraj\OneDrive\Documents\this> gcc sum.c
}
                        PS C:\Users\niraj\OneDrive\Documents\this> .\a.exe
                        1
                        4
                        9
                        16
                        25
                        36
                        49
                        64
                        81
                        PS C:\Users\niraj\OneDrive\Documents\this>
```

24)wap to print the multiplication table for 1-4.

```
code:
#include<stdio.h>
int main(){
int i,j;
for(i=1;i<=10;i++){
for(j=1;j<=10;j++){
printf("%d multiply %d = %d",i,j,i*j);
return 0;
output:
          PS C:\Users\niraj\OneDrive\Documents\code> .\a.exe
          1 \text{ multiply } 1 = 1
          1 multiply 2 = 2
          1 multiply 3 = 3
          1 multiply 4 = 4
          1 multiply 5 = 5
          1 multiply 6 = 6
          1 multiply 7 = 7
          1 multiply 8 = 8
          1 multiply 9 = 9
          1 multiply 10 = 10
          2 multiply 1 = 2
          2 multiply 2 = 4
          2 multiply 3 = 6
          2 multiply 4 = 8
          2 multiply 5 = 10
          2 multiply 6 = 12
          2 multiply 7 = 14
          2 multiply 8 = 16
          2 multiply 9 = 18
          2 multiply 10 = 20
          3 \text{ multiply } 1 = 3
          3 multiply 2 = 6
          3 \text{ multiply } 3 = 9
          3 \text{ multiply } 4 = 12
          3 \text{ multiply } 5 = 15
          3 \text{ multiply } 6 = 18
          3 multiply 7 = 21
          3 multiply 8 = 24
          3 \text{ multiply } 9 = 27
          3 multiply 10 = 30
          4 \text{ multiply } 1 = 4
          4 \text{ multiply } 2 = 8
          4 \text{ multiply } 3 = 12
          4 \text{ multiply } 4 = 16
          4 \text{ multiply } 5 = 20
          4 multiply 6 = 24
          4 \text{ multiply } 7 = 28
          4 \text{ multiply } 8 = 32
          4 \text{ multiply } 9 = 36
          4 multiply 10 = 40
```

```
25)wap to print patters:
a)
code:
                              PROBLEMS
                                         OUTPUT
                                                  DEBUG CONSOLE
                                                                TERMINAL
#include<stdio.h>
int main(){
                              PS C:\Users\niraj\OneDrive\Documents\code> gcc hw.c
                               PS C:\Users\niraj\OneDrive\Documents\code> .\a.exe
int i,j;
for(i=1;i<=5;i++)
  for(j=1;j<=5;j++)
                              PS C:\Users\niraj\OneDrive\Documents\code> [
    {
      printf("*");
  printf("\n");
return 0;
b)
code:
#include<stdio.h>
int main(){
int i,j;
for(i=1;i<=5;i++)
  for(j=1;j<=i;j++)
                               PROBLEMS
                                         OUTPUT
                                                  DEBUG CONSOLE
                                                                TERMINAL
                               PS C:\Users\niraj\OneDrive\Documents\code> gcc hw.c
     printf("*");
                               PS C:\Users\niraj\OneDrive\Documents\code> .\a.exe
                               **
   printf("\n");
                               ***
return 0;
                               PS C:\Users\niraj\OneDrive\Documents\code>
```

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

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\niraj\OneDrive\Documents\code> gcc hw.c
PS C:\Users\niraj\OneDrive\Documents\code> .\a.exe

****

***

PS C:\Users\niraj\OneDrive\Documents\code> []
```

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

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\niraj\OneDrive\Documents\code> gcc hw.c
PS C:\Users\niraj\OneDrive\Documents\code> .\a.exe

1
12
123
1234
12345
PS C:\Users\niraj\OneDrive\Documents\code> []
```

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

```
PS C:\Users\niraj\OneDrive\Documents\code> gcc hw.c
PS C:\Users\niraj\OneDrive\Documents\code> .\a.exe
1
22
333
4444
55555
PS C:\Users\niraj\OneDrive\Documents\code> [
```

Array:

```
-an array can hold similar data type
- they all have a common name
- each element is accessed via its index
- array are fixed sized ,i.e you cannot alter later.
- array size can be calculated = (data typesize * array size.)

example:
int a[10];
   a[0]=5;
   a[1]=10;
   a[9]=15;

int a[5]={1,6,7,3,4,5}
   printf("%d",a[3];
```

26)wap to input 10 numbers and display their sum (using array).

```
Code:
#include<stdio.h>
int main(){
    int n[10];
    int i,s=0;
    printf("enter any 10 numbers : \t");
    for(i=0;i<10;i++)
    {
        scanf("%d\t",&n[i]);
        s=s+n[i];
    }
    printf("sum is : %d",s);
    return 0;
}</pre>
```

27)wap to input 5 numbers and find the sum of even number.

```
Code:
#include<stdio.h>
int main(){
    int n[5];
    int i,s=0;
    printf("enter any 5 numbers : \t");
    for(i=0;i<5;i++)
    {
        scanf("%d\t",&n[i]);
        if(n[i]%2==0)
        {
        s=s+n[i];
        }
    }
    printf("sum is : %d",s);
    return 0;
}</pre>
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\niraj\OneDrive\Documents\code> gcc hello.c

PS C:\Users\niraj\OneDrive\Documents\code> .\a.exe

enter any 5 numbers : 2

2

1

1

4

2

sum is : 8

PS C:\Users\niraj\OneDrive\Documents\code> []
```

28)wap to input 5 numbers and find sum of even numbers and odd numbers .

```
Code:
#include<stdio.h>
int main(){
  int n[5];
  int i,se=0,so=0;
  printf("enter any 5 numbers : \t");
  for(i=0;i<4;i++)
  {
     scanf("%d\t",&n[i]);
     if(n[i]\%2==0)
     se=se+n[i];
     else
       so=so+n[i];
  printf("sum of even numbers : %d",se);
  printf("\n sum of odd numbers : %d",so);
  return 0;
}
```

```
PS C:\Users\niraj\OneDrive\Documents\code> gcc hello.c
PS C:\Users\niraj\OneDrive\Documents\code> .\a.exe
enter any 5 numbers : 2
2
2
5
5
sum of even numbers : 6
sum of odd numbers : 5
PS C:\Users\niraj\OneDrive\Documents\code> [
```

29)wap to input 5 numbers and count the number of even or odd.

```
Code:
#include<stdio.h>
int main(){
  int i;
  int n[5];
  int ce=0, co=0;
  printf("enter 5 numbers : ");
  for(i=0;i<5;i++)
     scanf("%d",&n[i]);
     if(n[i]\%2==0)
       ce++;
     else
       co++;
  printf("number of even number is : %d\n",ce);
  printf("number of odd number is : %d",co);
  return 0;
output:
```

```
PROBLEMS OUTPUT DEBUGCONSOLE TERMINAL

PS C:\Users\niraj\OneDrive\Documents\code> gcc hello.c

PS C:\Users\niraj\OneDrive\Documents\code> .\a.exe

enter 5 numbers : 2

2

3

3

4

number of even number is : 3

number of odd number is : 2

PS C:\Users\niraj\OneDrive\Documents\code> []
```

30) wap to input 5 number from user and display number of elements that can be divisible by 5.

```
code:
#include<stdio.h>
int main(){
    int n[10];
    int i,c=0;
    printf("enter any 5 numbers : ");
    for(i=0;i<10;i++)
    {
        scanf("%d",&n[i]);
        if(n[i]%5==0)
        {
            c++;
        }
    }
    printf("no. of element that can be divide by 5 : %d",c);
    return 0;
}</pre>
```

31)wap to input 5 numbers in array and increment the array by 2 times and display it .

```
Code:
#include<stdio.h>
int main(){
    int n[5];
    int n1[5];
    printf("enter any 5 number : ");
    int i;
    for(i=0;i<5;i++)
    {
        scanf("%d",&n[i]);
    }
    for(i=0;i<5;i++)
    {
        n1[i]=n[i]*2;
        printf("double of %d is : %d\n",n[i],n1[i]);
    }
    return 0;
}</pre>
```

```
PROBLEMS
          OUTPUT
                   DEBUG CONSOLE
                                   TERMINAL
PS C:\Users\niraj\OneDrive\Documents\code> gcc hello.c
PS C:\Users\niraj\OneDrive\Documents\code> .\a.exe
enter any 5 number : 2
3
4
5
double of 2 is : 4
double of 3 is : 6
double of 4 is : 8
double of 5 is : 10
double of 6 is : 12
PS C:\Users\niraj\OneDrive\Documents\code>
```

32)wap to input 5 numbers and display only those numbers which end with last digit 6.

```
code:
```

```
#include<stdio.h>
int main(){
    int n[5];
    int i;
    printf("enter any 5 numbers : \n");
    for(i=0;i<5;i++)
    {
        scanf("%d",&n[i]);
    }
    for(i=0;i<5;i++)
    {
        int c=n[i]%10;
        if(c==6)
        {
            printf("the number whose last digit is 6 : %d\n",n[i]);
        }
    }
    return 0;
}</pre>
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\niraj\OneDrive\Documents\code> gcc hello.c

PS C:\Users\niraj\OneDrive\Documents\code> .\a.exe

enter any 5 numbers:

12

23

56

6

76

the number whose last digit is 6 : 56

the number whose last digit is 6 : 6

the number whose last digit is 6 : 76

PS C:\Users\niraj\OneDrive\Documents\code> []
```