1) WAP to find the sum of two numbers using function named sum().

→
```
#include<stdio.h>
void sum();
int main()
{
 sum();
 return 0;
}
void sum()
{
 printf("author: Nijmi Bajracharya.\n");
 int a,b;
 printf("enter two numbers:\n");
 scanf("%d%d",&a,&b);
 printf("the sum of two numbers is %d",a+b);
}
```

```
author:Nijmi Bajracharya.
enter two numbers:
2
2
the sum of two numbers is 4

...Program finished with exit code 0
Press ENTER to exit console.
```

2) WAP to know a number is even or odd using function named evenodd().

→
```
#include<stdio.h>
void evenodd();
int main()
{
  evenodd();
  return 0;
}
void evenodd()
{
 printf("author: Nijmi Bajracharya.\n");
 int n;
 printf("enter a number:\n");
 scanf("%d",&n);
 if (n%2==0)
 {
 printf("it is even number");
 }
 else
printf("it is odd number");
}
```

```
author:Nijmi Bajracharya.
enter a numbers:
26
it is even number

...Program finished with exit code 0
Press ENTER to exit console.
```

3) WAP to print the greatest value among three numbers using a function int great().

→
```
#include<stdio.h>
int great();
int main()
{
  great();
  return();
}
int great()
{
  printf("author:Nijmi Bajracharya.\n");
  int a,b,c;
  printf("enter three numbers:\n");
  scanf("%d%d%d",&a,&b,&c);
  if(a>b && a>c)
  {
    printf("A is the greatest number");
  }
  else if(b>a && b>c)
  {
    printf("B is the greatest number");
  }
  else
  {
    printf("C is the greatest number");
  }
}
```

```
author:Nijmi Bajracharya.
enter three numbers:
30
40
50
C is the greatest number

...Program finished with exit code 0
Press ENTER to exit console.
```

4) WAP to know a number is prime or composite number using function.

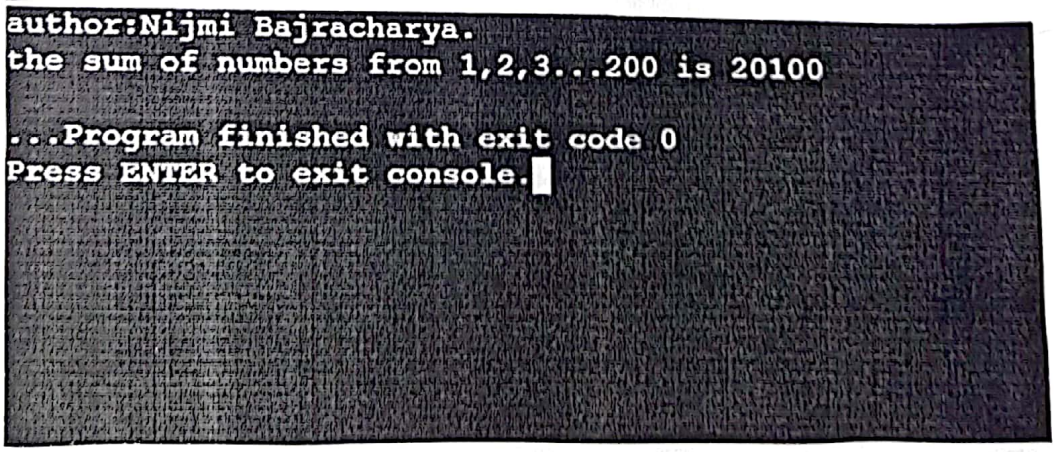
```
#include<stdio.h>
void num();
int main()
{
  num();
  return 0;
}
void num()
{
  printf("author:Nijmi Bajracharya.\n");
  int n,i,a=0;
  printf("enter a number:\n");
  scanf("%d",&n);
  for(i=1;i<=n;i++)
  {
    if(n%i==0)
    a=a+1;
  }
  if(a==2)
  printf("The number is PRIME");
  else
  printf("The number is COMPOSITE");
}
```

```
author:Nijmi Bajracharya.
enter a number:
20
The number is COMPOSITE

...Program finished with exit code 0
Press ENTER to exit console.
```

5) WAP to find the sum of series 1,2,3...200 using function. Assume yourself function name. It returns an integer value.

→
```
#include<stdio.h>
int sum();
int main()
{
 printf("author:Nijmi Bajracharya.\n");
 sum();
 printf("the sum of numbers from 1,2,3...200 is %d",
        sum());
 return 0;
}
int sum()
{
 int i,s=0;
 for(i=0;i<=200;i++)
 {
  s=s+i;
 }
 return s;
}
```



6) WAP to input elements of array and print them with their sum. Suppose, the array is one dimensional and is of void type and function to be used is array-elements().

→
```
#include<stdio.h>
void array-elements();
int main()
{
 array-elements();
 return 0;
}
void array-elements()
{
 printf("author:Nijmi Bajracharya.\n");
 int a[100];
 int size,i;
 printf("enter the size:\n");
 scanf("%d",&size);
 printf("enter array elements:\n");
 for(i=0;i<5;i++)
 {
  scanf("%d",&a[i]);
 }
 printf("array elements are:\n");
 for(i=0;i<size;i++)
 {
 printf("%d\n",a[i]);
 }
}
```

```
author:Nijmi Bajracharya
enter the size:
5
enter array elements:
1
2
3
4
5
array elements are:
1
2
3
4
5

...Program finished with exit code 0
Press ENTER to exit console.
```

7) Suppose a function void matrix_sum(int a[], int b[][]). Here, we have passed array as parameter. Use this function to find sum of matrix.

→
```
#include<stdio.h>
int size;
void matrix_sum(int a[100][100], int b[100][100]);
int main()
{
printf("author:Nijmi Bajracharya.\n");
int i,j,a[100][100],b[100][100];
printf("Enter the size ofarray for rows and column\n");
scanf("%d",&size);
for(i=0;i<size;i++)
{
 for(j=0;j<size;j++)
 {
 printf("enter [%d][%d] element for first matrix\n",i+1,
      j+1);
 scanf("%d",&a[i][j]);
 }
}
for(i=0;i<size;i++)
{
 for(j=0;j<size;j++)
{
 printf("enter [%d][%d] element for second matrix\n",
  i+1,j+1);
 scanf("%d",&b[i][j]);
}
}
matrix_sum(a,b)
return 0;
}
```

```
void matrix_sum (int c[100][100], int d[100][100])
{
 int i,j;
 printf("The sum is:\n");
 for(i=0;i<size;i++)
 {
 for(j=0;j<size;j++)
 {
 printf("%d", c[i][j]+d[i][j]);
 }
 printf("\n");
 }
}
```

```
author:Nijmi Bajracharya.
Enter size of array for rows and coumn
2
enter [1][1] element for first matrix
 1
enter [1][2] element for first matrix
 2
enter [2][1] element for first matrix
 3
enter [2][2] element for first matrix
 4
enter [1][1] element for second matrix
 1
enter [1][2] element for second matrix
 2
enter [2][1] element for second matrix
 3
enter [2][2] element for second matrix
 4
The sum is :
2 4
6 8


...Program finished with exit code 0
Press ENTER to exit console.
```

8) WAP to sort 'n' number of strings using function. Pass a parameter.

```
#include<stdio.h>
#include<string.h>
int n;
void string(char a[][100]);
int main()
{
printf("author:Nijmi Bajracharya.\n");
printf("Enter number of strings to sort\n");
scanf("%d",&n);
char a[n][100];
for(int i=0;int<n;i++)
{
printf("Enter[%d]string\n",i+1);
scanf("%s",a[i]);
}
string(a);
}
void string(char c[][100])
{
printf("The sorted string is:\n");
int i,j;
char temp[100];
for(i=0;i<n;i++)
{
for(j=i+j;j<n;j++)
{
if(strcmp(c[i],c[j])>0)
{
strcpy(temp,c[i]);
strcpy(c[i],c[j]);
strcpy(c[j],temp);
```

```
    }
    }
    }
for(i=0;i<n;i++)
{ printf("%s",c[i]);
 }
}
```

```
author:Nijmi Bajracharya.
Enter number of strings to sort
5
Enter [1] string
apple
Enter [2] string
mango
Enter [3] string
orange
Enter [4] string
guava
Enter [5] string
pineapple
The sorted string is :
apple guava mango orange pineapple

...Program finished with exit code 0
Press ENTER to exit console.
```

g)WAP to find the factorial value of a number using recursive function.

→
```
#include <stdio.h>
void factorial (int n);
int main()
{
printf("author: Nijmi Bajracharya.\n");
int number;
printf("enter a number:\n");
scanf("%d",&number);
factorial (number);
return 0;
}
void factorial (int n)
{
 auto int i, f=1;
for (i=1;i<=n;i++)
{
  f=f*i;
}
printf(" the factorial is %d",f);
}
```

```
author:Nijmi Bajracharya.
enter a number:
6
the factorial is 720

...Program finished with exit code 0
Press ENTER to exit console.
```