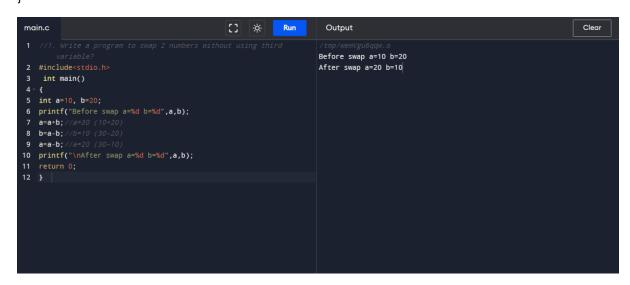
//1. Write a program to swap 2 numbers without using third variable?

```
#include<stdio.h>
int main()
{
int a=10, b=20;
printf("Before swap a=%d b=%d",a,b);
a=a+b;//a=30 (10+20)
b=a-b;//b=10 (30-20)
a=a-b;//a=20 (30-10)
printf("\nAfter swap a=%d b=%d",a,b);
return 0;
}
```



//2. Write a program to find given number is +ve or -ve number

```
#include<stdio.h>
int main()
{
    int a;
    printf("Enter the Value of a :");
    scanf("%d",&a);
    if(a>0)
    {
        printf("\na is Positive");
    }
    else if(a==0)
```

```
{
    printf("\na is Zero");
}
else
{
    printf("\na is Nagative");
}
```

//3. Write a program to find biggest number among 3 numbers

```
int main()
{
    int A;
    int B;
    int C;

    printf("Enter the numbers A: ");
    scanf("%d", &A);
    printf("Enter the numbers B: ");
    scanf("%d", &B);
    printf("Enter the numbers C: ");
    scanf("%d",&C);
```

#include <stdio.h>

```
if (A >= B \&\& A >= C)
                            printf("%d is the largest number.", A);
              if (B >= A \&\& B >= C)
                            printf("%d is the largest number.", B);
              if (C >= A \&\& C >= B)
                            printf("%d is the largest number.", C);
              return 0;
}
                                                                     [] 🔅 Run
                                                                                                                                                                           Clear
                                                                                          Enter the numbers A: 10
1Enter the numbers B: 20
Enter the numbers C: 392
392 is the largest number
        printf("Enter the numbers A: ");
scanf("%d", &A);
printf("Enter the numbers B: ");
scanf("%d", &B);
printf("Enter the numbers C: ");
scanf("%d", &C);
         if (A >= B && A >= C)
    printf("%d is the largest number.", A);
//4. Write a program to print even numbers up to 10
#include <stdio.h>
int main()
```

printf("The First 10 Even Natural Numbers are\n");

for (int i = 1; $i \le 10$; i++)

printf("%d\n", 2 * i);

{

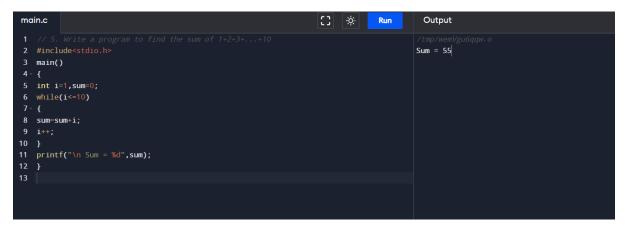
}

{

}

// 5. Write a program to find the sum of 1+2+3+...+10

```
#include<stdio.h>
main()
{
int i=1,sum=0;
while(i<=10)
{
sum=sum+i;
i++;
}
printf("\n Sum = %d",sum);
}</pre>
```



//6. Write a program to find factorial of a given number using while loop

```
#include<stdio.h>
int main()
{
  int n,f=1;
  printf("\n Enter a number :");
  scanf("%d",&n);
  while(n>=1)
  {
  f=f*n;
  n--;
}
```

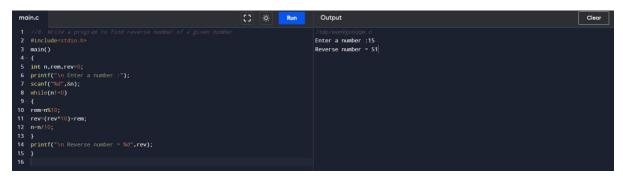
```
}
printf("\n Factorial = %d",f);
}
```

//7. Write a program to print Fibonacci series using while loop

```
#include<stdio.h>
main()
{
int a=0,b=1,c,n;
printf("\n Enter Range :");
scanf("%d",&n);
printf("%d",a);
printf("\t%d",b);
c=a+b;
while(c<=n)
{
printf("\t %d",c);
a=b;
b=c;
c=a+b;
}
}
```

//8. Write a program to find reverse number of a given number

```
#include<stdio.h>
main()
{
int n,rem,rev=0;
printf("\n Enter a number :");
scanf("%d",&n);
while(n!=0)
{
rem=n%10;
rev=(rev*10)+rem;
n=n/10;
}
printf("\n Reverse number = %d",rev);
}
```



//9. Write a program to check whether given alphabet is vowel or not using switch Case

```
main()
{
    char ch;
    printf("\n Enter a character :");
    scanf("%s",&ch);
```

#include<stdio.h>

```
switch(ch)
{
case 'a': printf("\n Vowel"); break;
case 'e': printf("\n Vowel"); break;
case 'A': printf("\n Vowel"); break;
case 'E': printf("\n Vowel"); break;
default: printf("\n Not vowel"); break;
}
}
  main.c
                                                                   \Box
                                                                               Run
                                                                                         Output
                                                                                       Enter a character :A
                                                                                       Vowel
     main()
  5 char ch;
  6 printf("\n Enter a character :");
7 scanf("%s",&ch);
  8 switch(ch)
 11 case 'e': printf("\n Vowel"); break;
12 case 'A': printf("\n Vowel"); break;
// 10. Write a program to find length of a given string
#include <stdio.h>
#include <string.h>
int main()
{
         char Str[1000];
         int i;
          printf("Enter the String: ");
          scanf("%s", Str);
         for (i = 0; Str[i] != '\0'; ++i);
          printf("Length of Str is : %d", i);
          return 0;
```

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

```
/*12. Using for loop print the following format
Α
\mathsf{AB}
\mathsf{ABC}
ABCD
ABCDE
*/
#include<stdio.h>
main()
{
int i,j;
for(i=65;i<=69;i++)
{
for(j=65;j<=i;j++)
printf("%c",j);
printf("\n");
}
}
```

8
9 #include<stdio.h>
10 main()
11 - {
12 int i, j;
13 for(i=65;i<=69;i++)
14 - {
15 for(j=65;j<=1;j++);
16 printf("kc",j);
17 printf("\n");
18 }
19 }
20</pre>