

1) #include<stdio.h>

int main(){

int n,i;

int a[100];

printf("enter the number;");

scanf("%d",&n);

for(i=0;n!=0;i++){

a[i]=n%2;

n/=2;

}

a[i]='\0';

for(int j=i-1;j>=0;j--){

printf("%d",a[j]);

}

return 0;

}

The screenshot shows the Programiz Online C Compiler interface. The browser address bar displays 'programiz.com/c-programming/online-compiler/'. The page header includes the Programiz logo, 'Premium Coding Courses by Programiz', and a 'Programiz PRO' button. The main area is divided into two panels: a code editor on the left and an output window on the right. The code editor shows a C program named 'main.c' with the following code:

```
4- int main(){
5   char name[100];
6   int vowels=0,consonents=0;
7   printf("enter your name:");
8   fgets(name,100,stdin);
9-   for(int i=0;name[i]!='\0';i++){
10      name[i]=tolower(name[i]);
11      if(isalpha(name[i])){
12         if(strchr("aeiou",name[i])){
13             vowels++;
14         }
15         else
16             consonents++;
17     }
18 }
19 printf("no of vowels is %d\n",vowels);
20 printf("no of consonents is %d",consonents);
21 return 0;
22 }
```

The output window shows the result of the program execution:

```
enter your name:raghu ram reddy
no of vowels is 4
no of consonents is 9
=== Code Execution Successful ===
```

The bottom of the screenshot shows a Windows taskbar with the date and time '10:20 AM 1/8/2025'.

2) #include<stdio.h>

#include<string.h>

#include<ctype.h>

int main(){

 char name[100];

 int vowels=0,consonents=0;

 printf("enter your name:");

 fgets(name,100,stdin);

 for(int i=0;name[i]!='\0';i++){

 name[i]=tolower(name[i]);

 if(isalpha(name[i])){

 if(strchr("aeiou",name[i])){

 vowels++;

```

    }

    else

    consonents++;

}

}

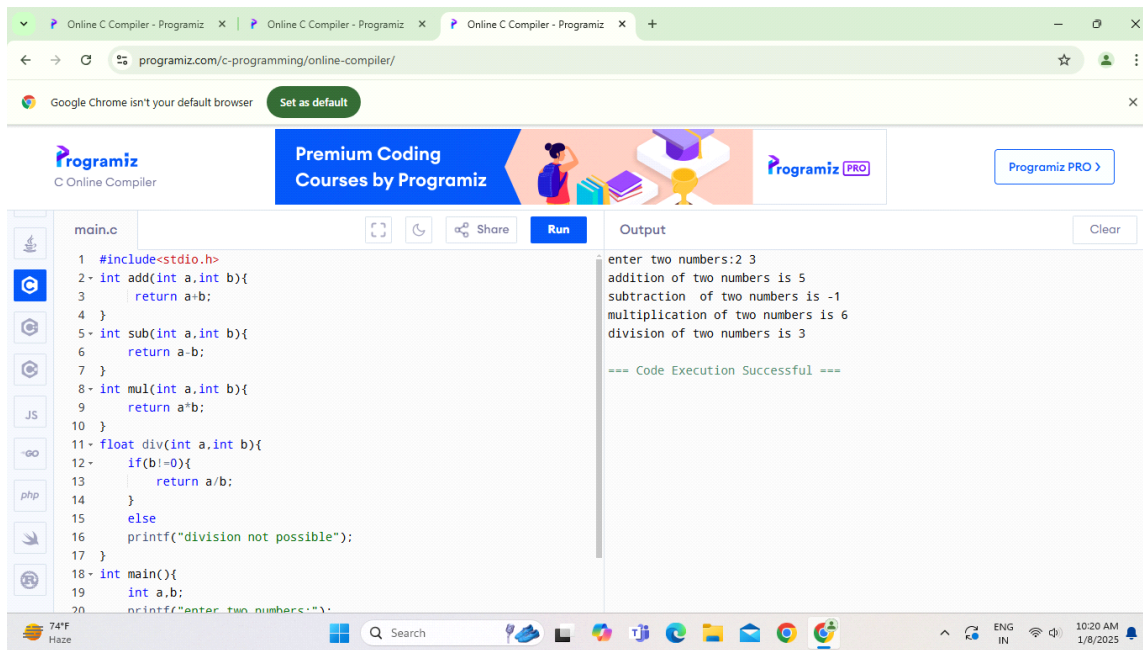
printf("no of vowels is %d\n",vowels);

printf("no of consonents is %d",consonents);

return 0;

}

```



3) #include<stdio.h>

```
int add(int a,int b){
```

```
    return a+b;
```

```
}
```

```
int sub(int a,int b){
```

```
    return a-b;
```

```
}
```

```
int mul(int a,int b){
    return a*b;
}

float div(int a,int b){
    if(b!=0){
        return a/b;
    }
    else
        printf("division not possible");
}

int main(){
    int a,b;

    printf("enter two numbers:");

    scanf("%d %d",&a,&b);

    printf("addition of two numbers is %d\n",add(a,b));
    printf("subtraction  of two numbers is %d\n",sub(a,b));
    printf("multiplication of two numbers is %d\n",mul(a,b));
    printf("division of two numbers is %d",div(a,b));

    return 0;
}
```

4) #include<stdio.h>

int main(){

int r,i,j,l;

printf("enter no of rows:");

scanf("%d",&r);

for(i=1;i<=r;i++){

for(j=1;j<=r-i;j++){

printf(" ");

}

for(l=1;l<=2*i-1;l++){

printf("* ");

}

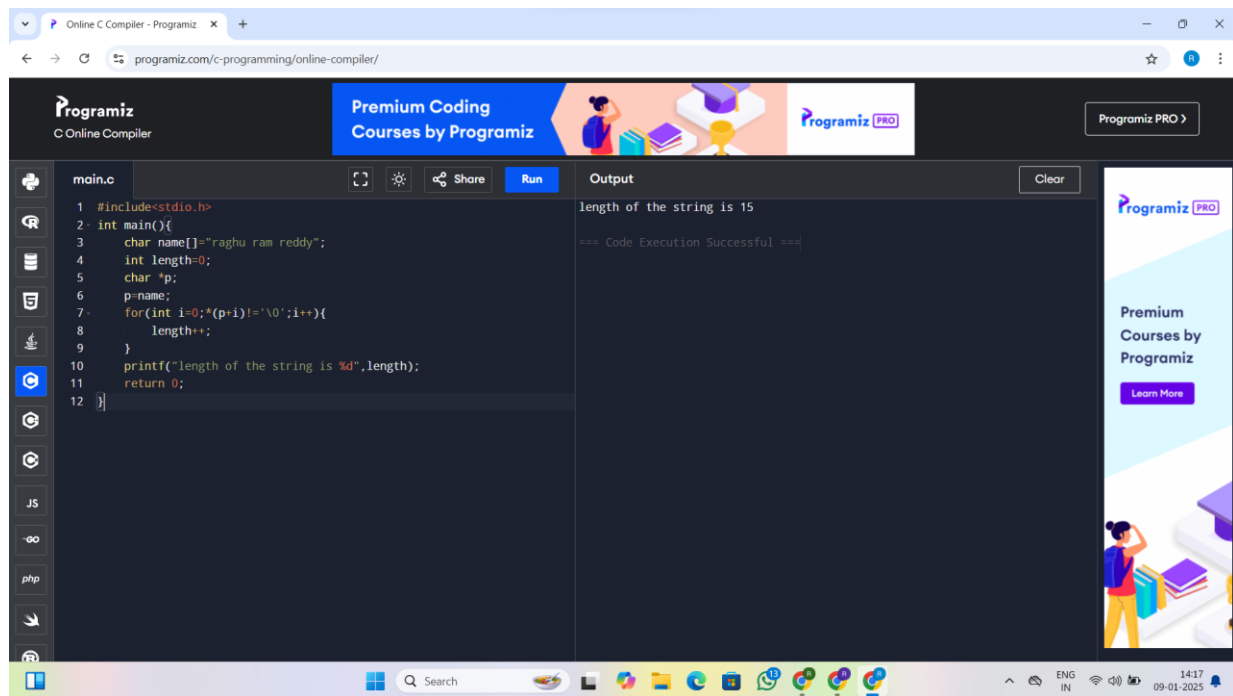
printf("\\n");

}

for(i=r-1;i>=1;i--){

for(j=r-i;j>=1;j--){

```
        printf(" ");
    }
    for(l=2*i-1;l>=1;l--){
        printf("* ");
    }
    printf("\n");
}
}
```

5) `#include<stdio.h>`

`int main(){`

`char name[]="raghu ram reddy";`

`int length=0;`

`char *p;`

`p=name;`

`for(int i=0;*(p+i]!='\0';i++){`

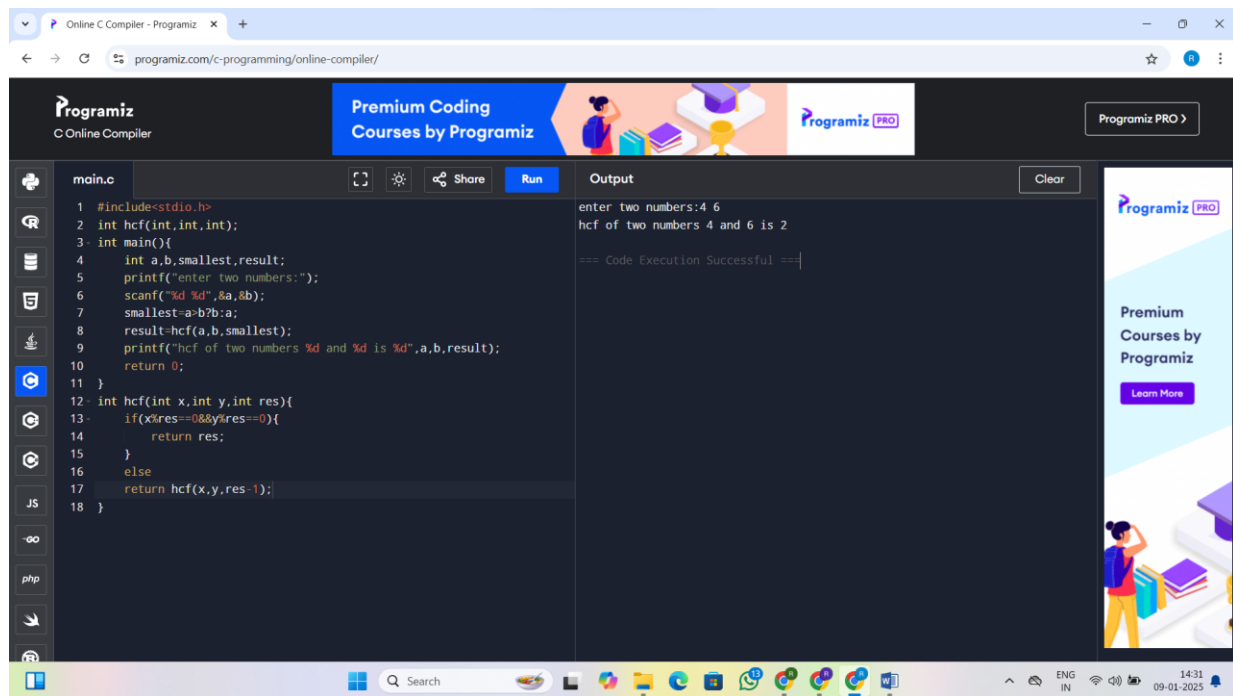
`length++;`

`}`

`printf("length of the string is %d",length);`

`return 0;`

`}`



6) `#include<stdio.h>`

`int hcf(int,int,int);`

`int main(){`

`int a,b,smallest,result;`

`printf("enter two numbers:");`

`scanf("%d %d",&a,&b);`

`smallest=a>b?b:a;`

`result=hcf(a,b,smallest);`

`printf("hcf of two numbers %d and %d is %d",a,b,result);`

`return 0;`

`}`

`int hcf(int x,int y,int res){`

`if(x%res==0&&y%res==0){`

`return res;`

```
    }  
    else  
        return hcf(x,y,res-1);  
}
```