Name: Jameel Ahmed Kustagi

Q1.C Program for Prime Numbers Using For Loop

```c
#include <stdio.h>
int main()
{
    int i, num, temp = 0;
    printf("Enter any numb to Check for Prime: ");
    scanf("%d", &num);
    for (i = 2; i <= num / 2; i++)
    {
        if (num % i == 0)

        {
            temp++;
            break;
        }
    }
    if (temp == 0 && num != 1)

    {
        printf("%d is a Prime number", num);
    }
    else
    {
        printf("%d is not a Prime number", num);
    }
    return 0;
}
```

Logic : The prime number logic it is divisible by 1 and itself, other than this is not prime.

Name: Jameel Ahmed Kustagi

main.c

```c
#include <stdio.h>
int main()
{
    int i, num, temp = 0;
    printf("Enter any numb to Check for Prime: ");
    scanf("%d", &num);
    for (i = 2; i <= num / 2; i++)
    {
        if (num % i == 0)

        {
            temp++;
            break;
        }
    }
    if (temp == 0 && num != 1)
```

input

```
Enter any numb to Check for Prime: 2
2 is a Prime number

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

main.c

```c
#include <stdio.h>
int main()
{
    int i, num, temp = 0;
    printf("Enter any numb to Check for Prime: ");
    scanf("%d", &num);
    for (i = 2; i <= num / 2; i++)
    {
        if (num % i == 0)

        {
            temp++;
            break;
        }
    }
    if (temp == 0 && num != 1)
```

input

```
Enter any numb to Check for Prime: 4
4 is not a Prime number

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

main.c

```c
#include <stdio.h>
int main()
{
    int i, num, temp = 0;
    printf("Enter any numb to Check for Prime: ");
    scanf("%d", &num);
    for (i = 2; i <= num / 2; i++)
    {
        if (num % i == 0)

        {
            temp++;
            break;
        }
    }
    if (temp == 0 && num != 1)
```

input

```
Enter any numb to Check for Prime: 3
3 is a Prime number

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

Name: Jameel Ahmed Kustagi

Q2. Program to replace all 0's with 1 in a given integer

```c
#include<stdio.h>
   int main()
  {
    int num,num2=0;
    printf("Enter number: ");
    scanf("%d", &num);
    if(num == 0)
       num2=1;
    while(num>0)
    {
       int rem = num%10;
       if(rem == 0)
          rem = 1;
       num = num/10;
       num2=num2*10+rem;
    }
   num = 0 ;
   while(num2>0){
    int r = num2%10;
    num= num*10 + r;
    num2 /= 10;
  }
    printf("Converted number is: %d" ,num);
    return 0;
  }
```

Logic: In the integer any number is 0 then it is converted to 1 by simplifying.

OUTPUT:

Name: Jameel Ahmed Kustagi

```c
#include<stdio.h>

int main()
{

    int num,num2=0;

    printf("Enter number: ");

    scanf("%d", &num);

    if(num == 0)

        num2=1;

    while(num>0)

    {
```

```
Enter number: 10002
Converted number is: 11112

...Program finished with exit code 0
Press ENTER to exit console.
```
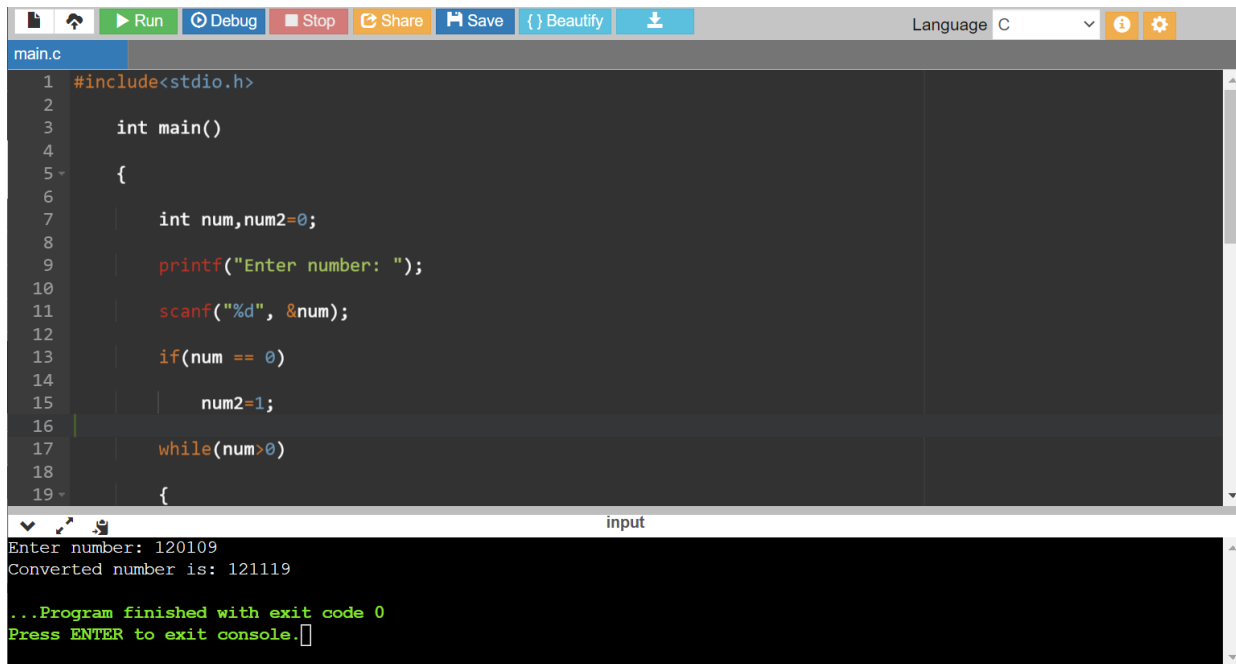
```c
#include<stdio.h>

int main()
{

    int num,num2=0;

    printf("Enter number: ");

    scanf("%d", &num);

    if(num == 0)

        num2=1;

    while(num>0)

    {
```

```
Enter number: 1002011
Converted number is: 1112111

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

Name: Jameel Ahmed Kustagi


```c
#include<stdio.h>

int main()
{

    int num,num2=0;

    printf("Enter number: ");

    scanf("%d", &num);

    if(num == 0)

        num2=1;

    while(num>0)

    {
```

Enter number: 120109
Converted number is: 121119

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