

1. Write a program to check whether the given no is prime number or not

```
Assignment2.c > C PrimeNo.c > main()
1  #include <stdio.h>
2
3  void isPrime(int x ){
4      if(x<=1){
5          printf("Incorrect Input number");
6          return;
7      }
8
9      for(int i=2; i*i<=x; i+=1){
10         if(x%i==0){
11             printf("Not a prime");
12         }
13     }
14     printf("Is Prime");
15 }
16
17 int main(){
18     printf("Enter the number");
19     int a;
20     scanf("%d", &a);
21
22     isPrime(a);
23     return 0;
24 }
25 }
```

2.. Write a program to display largest among 3 numbers (Using If-Else)

```
Assignment2.c > C Largest.c > main()
1  #include <stdio.h>
2
3  int main(){
4      printf("enter the three numbers:");
5
6      int a,b,c;
7      scanf("%d %d %d", &a, &b, &c);
8
9      if(a>=b && a>=c){
10         printf("The largest is: %d", a);
11     }
12     else if(b>=c){
13         printf("The largest is: %d", b);
14     }
15     else{
16         printf("The largest is: %d", c);
17     }
18     return 0;
19 }
20 }
```

2. Write a program to Demonstrate working of 3 loops(for, while and dowhile)

Assignment2.c > C ForWhileDoWhile.c > main()

```
1  #include <stdio.h>
2
3  int main(){
4      for(int i=1; i<=10; i+=1){
5          printf("%d", i);
6      }
7
8      int j=1;
9      while(j<=10){
10         printf("%d", j);
11         j+=1;
12     }
13
14     int k=1;
15     do{
16         printf("%d", k);
17         k+=1;
18     }while(k<=10);
19
20     return 0;
21 }
```

3. Write a program to print the following pattern

```
1
2 3
4 5 6
7 8 9 10
```

```
1
1 1
1 1 1
1 1 1 1
```

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

Assignment2.c > C Pattern.c > main()

```
1  #include <stdio.h>
2
3  int main(){
4      printf("Enter the value of n");
5      int n;
6      scanf("%d", &n);
7
8      int number=1;
9      for(int i=1; i<=n; i+=1){
10         for(int j=1; j<=i; j+=1){
11             printf("%d", number);
12             number+=1;
13         }
14     }
15
16     int number=1;
17     for(int i=1; i<=n; i+=1){
18         for(int j=1; j<=i; j+=1){
19             printf("%d", number);
20         }
21     }
22
23
24     for(int i=1; i<=n; i+=1){
25         for(int j=1; j<=i; j+=1){
26             printf("%d", j);
27         }
28     }
29
30 }
```