LAB 06

BCS-1K **25K-0892**

TASK 01:

```
#include <stdio.h>

int main() {
    int x;
    int evenCount = 0, oddCount = 0;
    char ch = 'y';

    do {
        printf("Enter a number: ");
        scanf("%d", &x);

        if (x & 1) {
            printf("%d is Odd.\n", x);
            oddCount++;
        } else {
            printf("%d is Even.\n", x);
            evenCount++;
        }

        printf("Do you want to continue? (y for yes / n for no): ");
        scanf(" %c", &ch);

    } while (ch == 'y' || ch == 'Y');
    printf("\nTotal Even numbers entered: %d\n", evenCount);
    printf("Total Odd numbers entered: %d\n", oddCount);
    return 0;
}
```

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OUTPUT:

```
PS C:\Coding\C\Uni_Work> cd "c:\Coding\C\Uni_Work\" ; if ($?)
Enter a number: 4
4 is Even.
Do you want to continue? (y for yes / n for no): Y
Enter a number: 7
7 is Odd.
Do you want to continue? (y for yes / n for no): Y
Enter a number: 12
12 is Even.
Do you want to continue? (y for yes / n for no): n

Total Even numbers entered: 2
Total Odd numbers entered: 1
```

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TASK 02:

```
#include <stdio.h>
int main() {
   int x;
   int sum = 0,count = 0;
   printf("Enter a number: ");
   scanf("%d", &x);

   printf("Prime numbers till %d are:\n", x);

   for(int i = 2; i <= x ; i++){
      int prime = 1;
      for(int j =2; j<=i-1;j++){
         if(i % j == 0){
            prime = 0;
            break;
         }
      }
      if(prime){
         printf("%d ", i);
         count++;
         sum+=i;
      }
   }
   printf("\nTotal prime numbers till %d: %d\n",x, count);
   printf("Sum of total prime numbers till %d: %d\n",x, sum);
   return 0;
}
```

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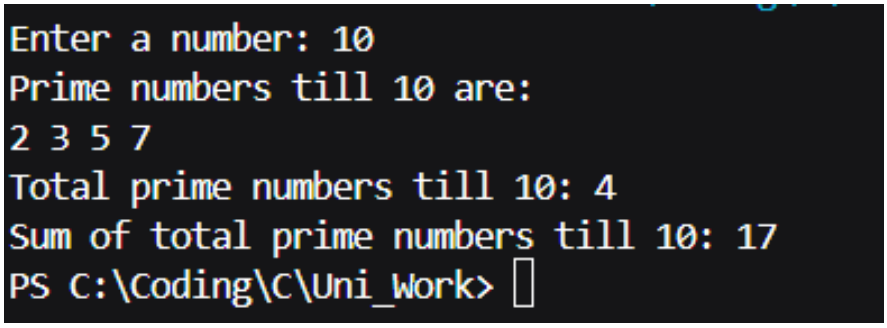
OUTPUT:



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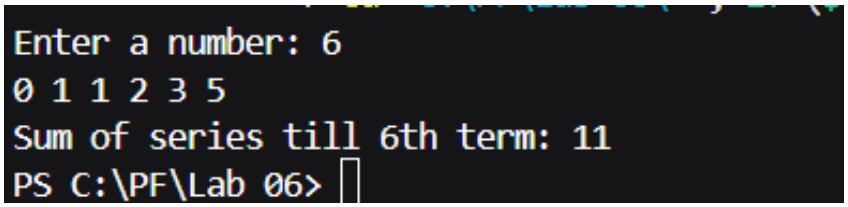
TASK 03:

```
#include <stdio.h>
int main() {
   int x,i=2;
   int next,first = 0 , second = 1,sum=0;
   printf("Enter a number: ");
   scanf("%d", &x);

   printf("%d ", first);
   printf("%d ", second);
   while(i<x){
      next = first + second;
      printf("%d ", next);
      sum+=next;

      first = second;
      second = next;
      i ++;
   }
   printf("\nSum of series till %dth term: %d\n",x, sum);
   return 0;
```

OUTPUT:



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TASK 04:

```
#include <stdio.h>


int main() {
   char x;
   int v_count = 0, c_count = 0;
   char ch = 'y';
   do {
      printf("Enter a alphabet: ");
      scanf(" %c", &x);


      if (x == 'a' || x == 'e' || x == 'i' || x == 'o' || x == 'u'||x == 'A' || x == 'E' || x == 'I' || x == 'O' || x == 
'U') {
         v_count++;
      } else {
         c_count++;
      }


      printf("Do you want to continue? (y for yes / n for no): ");
      scanf(" %c", &ch);


   } while (ch == 'y' || ch == 'Y');
   printf("\nTotal numbers of vowels entered: %d\n", v_count);
   printf("Total numbers of consonants entered: %d\n", c_count);
   return 0;
}
```

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OUTPUT