ASSIGNMENT - 07

Q1.

Q2.

```
刘 File Edit Selection View Go Run Terminal Help
                                                                      2.c - Assignment 7 - Visual Studio Code
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                                                                                        PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
                                                                                                                                                Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
                                                                                         Install the latest PowerShell for new features and improvements! https://aka.ms/PS
              int main()
                                                                                        PS D:\BootCamp\C Programming\Assignments\Assignment 7> cd "d:\BootCamp\C Programming\Assignments\Assignment 7\"; if ($?) { gcc 2.c -o 2 }; if ($?) { .\2 }
                  Enter how many numbers you have to print: 6
                                                                                        The first 6 fibonnaci terms are:
                  \t", num, prev, curr);
for (int i = 1; i <= num - 2; i++)</pre>
                                                                                        PS D:\BootCamp\C Programming\Assignments\Assignment 7>
                      curr = next;
```

Q3.

Q4.

```
4.c - Assignment 7 - Visual Studio Code
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Copyright (C) Microsoft Corporation. All rights reserved.
                                                                                                                                                                                                                                                                                                        Install the latest PowerShell for new features and improvements! 
 \verb|https://aka.ms/PSWindows|
int main()
                                                                                                                                                                                                                                                                                                        PS D:\BootCamp\C Programming\Assignments\Assignment 7> cd "d:\BootCamp\C Programming\Assignments\Assignment 7\" ; if ($?) { gcc 4.c -o 4 } ; if ($?) { .\4 }
                 printf("\nEnter first number: ");
scanf("%d", &a);
printf("\nEnter second number: ");
scanf("%d", &b);
                                                                                                                                                                                                                                                                                                        Enter second number: 46
                                                                                                                                                                                                                                                                                                        HCF of 10 and 46 is: 2
                  int min = a < b ? a : b;
for (i = 1; i <= min; i++)</pre>
                                                                                                                                                                                                                                                                                                        PS D:\BootCamp\C Programming\Assignments\Assignment 7>
                                      if (a % i == 0 && b % i == 0)
                  printf("\nHCF of %d and %d is: %d \n", a, b,
                  HCF);
                  printf("\n");
```

Q5.

```
刘 File Edit Selection View Go Run Terminal Help
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       C 5.c
                                                                                                              Windows PowerShell
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                                                                                                             Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
                 int main()
                                                                                                             PS D:\BootCamp\C Programming\Assignments\Assignment 7> cd "d:\BootCamp\C Programming\Assignments\Assignment 7\" ; if ($?) { gcc 5.c -o 5 } ; if ($?) { .\5
                      int a, b, i, HCF;
printf("\nEnter first number: ");
scanf("%d", &a);
printf("\nEnter second number: ");
scanf("%d", &b);
                                                                                                              Enter second number: 5
                                                                                                              2 and 5 are co-prime numbers.
                       for (i = 1; i <= min; i++)
                                                                                                              PS D:\BootCamp\C Programming\Assignments\Assignment 7>
                            if (a % i ==0 && b % i == 0)
                           printf("\n%d and %d are co-prime numbers.", a, b);
                           a, b);
```

Q6.

Q7.

Q8.

```
🔾 File Edit Selection View Go Run Terminal Help
                                                                               8.c - Assignment 7 - Visual Studio Code

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ho code + 
ho = 1
                                                                                                      Windows PowerShell
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       C 8.c > ☆ main()
                                                                                                       Install the latest PowerShell for new features and improvements! https://aka.m
                int main()
                                                                                                       PS D:\BootCamp\C Programming\Assignments\Assignment 7> cd "d:\BootCamp\C Programming\Assignments\Assignment 7\" ; if (\$?) { gcc 8.c -0 8 } ; if (\$?) { .\8 }
                     int num, i, j, flag = 0;
                     printf("\nEnter a number: ");
scanf("%d", &num);
                     for (i = num + 1; 1; i++)
                                                                                                       The next prime number after 24 is: 29
                          flag = 0;
                                                                                                       PS D:\BootCamp\C Programming\Assignments\Assignment 7>
                                    flag = 1;
                          if (flag == 0)
                               %d", num, i);
break;
                     printf("\n\n");
                     return 0;
```

Q9.

Q10.

```
| File | Edit | Selection | View | Go | Run | Terminal | Help | 10.c | Assignment 7 - Visual Studio Code | Code |
```