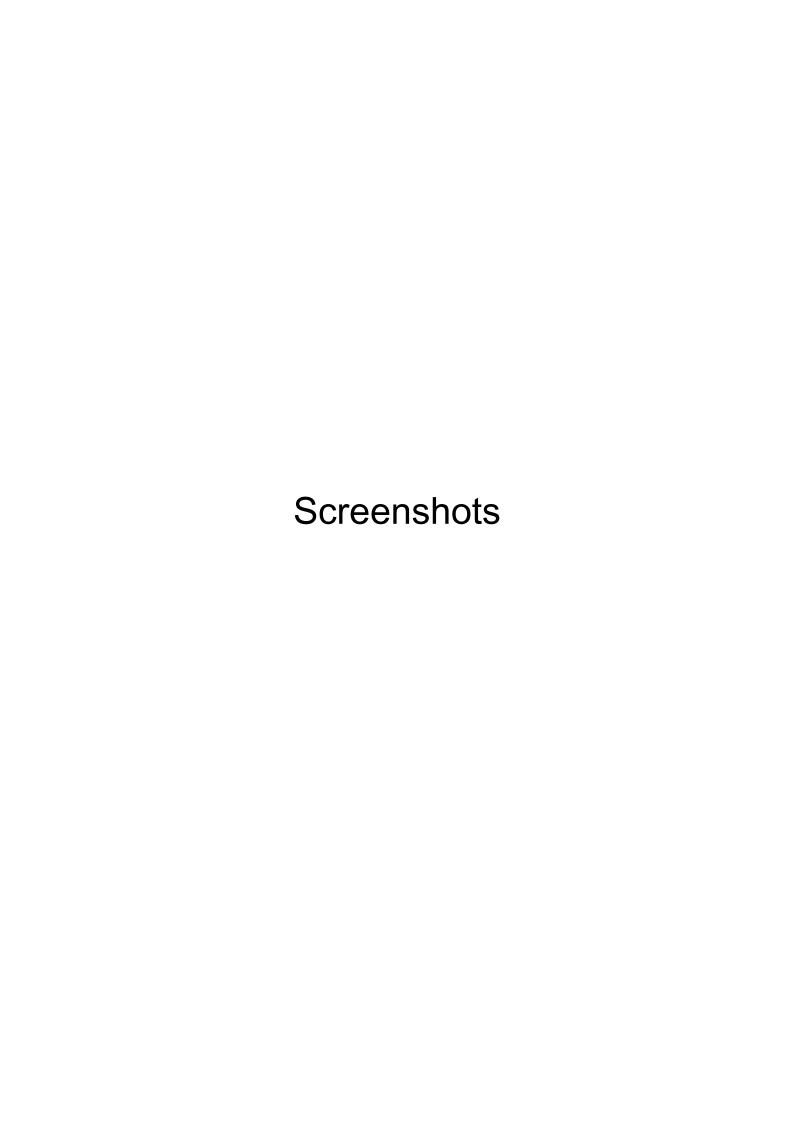
Name: Muhammad Abu Bakar

Roll Number: 24k-0826

Section: BCS-1D

Week5 - PF Lab

Teacher: Sir Muhammad Aashir



Question-1

```
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>pF-Lab-W05-S1-Q1.c -o PF-Lab-W05-S1-Q1.exe
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q1.exe
Please enter your age:
17
Teenager...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q1.exe
Please enter your age:
44
Adult...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q1.exe
Please enter your age:
4
Child....
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q1.exe
Please enter your age:
78
Senior...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q1.exe
Please enter your age:
78
Senior...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q1.exe
```

```
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q2.c -o PF-Lab-W05-S1-Q2.exe

C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q2.exe
Please enter your value:
0
The number is zero....

C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q2.exe
Please enter your value:
-4
The value is negative....

C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q2.exe
Please enter your value:
8
The number is positive and even...

C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q2.exe
Please enter your value:
11
The number is positive and odd....

C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q2.exe
Please enter your value:
11
The number is positive and odd....

C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S1-Q2.exe
```

Question-1

```
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>pF-Lab-W05-S2-Q1.c -o PF-Lab-W05-S2-Q1.exe Please enter your number:
45
The entered number is divisible by both 5 and 3....
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S2-Q1.exe Please enter your number:
0
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S2-Q1.exe Please enter your number:
0
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S2-Q1.exe Please enter your number:
30
The entered number is divisible by both 5 and 3....
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S2-Q1.exe Please enter your number:
10
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S2-Q1.exe Please enter your number:
9
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S2-Q1.exe Please enter your number:
9
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S2-Q1.exe
```

```
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>gcc PF-Lab-W05<u>-S2-Q2.c -o PF-Lab-W05-S2-Q2.cxe</u>
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S2-Q2.exe
Please enter your age
59
Please enter your citizenship P for Pakistani and F for Forigen:
You are eligible to vote....
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S2-Q2.exe Please enter your age:
Please enter your citizenship P for Pakistani and F for Forigen:
Please wait for a few years to meet the eligibility criteria
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S2-Q2.exe
Please enter your age:
25
Please enter your citizenship P for Pakistani and F for Forigen:
If you're not Pakistani be happy, as you're a lucky person, and please only consider voting in your country....
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S2-Q2.exe
Please enter your age:
Please enter your citizenship P for Pakistani and F for Forigen:
You don't meet either of the criterias...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>
```

Question-1

```
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>gcc PF-Lab-W05-S3-Q1.c -o PF-Lab-W05-S3-Q1.exe Please enter your 1st number:
6
Please enter your 2nd number:
2
The greater number is the 1st one...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S3-Q1.exe Please enter your 1st number:
3
Please enter your 2nd number:
62
Thew greater number is the 2nd one....
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S3-Q1.exe Please enter your 1st number:
7\
Please enter your 2nd number:
The greater number is the 1st one...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S3-Q1.exe Please enter your 2nd number:
The greater number is the 1st one...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S3-Q1.exe Please enter your 1st number:
9
Please enter your 2nd number:
9
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S3-Q1.exe Please enter your 2nd number:
9
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S3-Q1.exe
```

```
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>pF-Lab-W05-S3-Q2.c -o PF-Lab-W05-S3-Q2.exe

C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S3-Q2.exe
Please enter a number to check for:
23
The number is a positive number...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S3-Q2.exe
Please enter a number to check for:
-76
The number is a negative number...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S3-Q2.exe
Please enter a number to check for:
0
The number is zero...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S3-Q2.exe
Please enter a number to check for:
0
The number is zero...
```

Question-1

```
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S4-Q1.c -o PF-Lab-W05-S4-Q1.exe
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S4-Q1.exe
Please enter your 1st number:
45
Please enter your 2nd number:
32
The swapped 1st number is: 32
The swapped 2nd number is: 45
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>
```

Question-2

```
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>gcc PF-Lab-W05-S4-Q2.c -o PF-Lab-W05-S4-Q2.exe
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S4-Q2.exe
Please enter your number:
15
The total number of 1's are: 4
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S4-Q2.exe
Please enter your number:
255
The total number of 1's are: 8
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>
```

(This was not part of the assignment, However I had an idea on how to solve this that's why I went ahead to attempt this)

Question-1

```
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>pcc PF-Lab-W05-S5-Q1.c -o PF-Lab-W05-S5-Q1.exe
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S5-Q1.exe
Please enter the year you would like to check the leap year for:
2020
The year 2020 is a leap year
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S5-Q1.exe
Please enter the year you would like to check the leap year for:
1985
The year 1985 is not a leap year...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>
```

Question-2

C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>gcc PF-Lab-W05-S5-Q2.c -o PF-Lab-W05-S5-Q2.exe
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-S5-Q2.exe
Please enter your number:
54123
The sum of the digits composed of the number is: 15
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>

More Problems

Question-1

```
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q2.c -o PF-Lab-W05-Q2.exe

C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q2.exe

Please enter your attendance in precentage: 57
Unfortunately, due to poor attendance you will not be allowed to sit in the exam and will have to repeat this particular course...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q2.exe

Please enter your assignment score's average: 90
Please enter your exam results: 99
Your garde is A*...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q2.exe

Please enter your attendance in precentage: 94
Please enter your exam results: 88
Your garde is A*...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q2.exe

Please enter your exam results: 88
Please enter your attendance in precentage: 89
Please enter your attendance in precentage: 89
Please enter your assignment score's average: 73
Please enter your assignment score's average: 77
Your grade is B...
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q2.exe

Please enter your axing and abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q2.exe

Please enter your axing and
```

```
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>pF-Lab-W05-Q3.c -o PF-Lab-W05-Q3.exe please enter a character you would like to encrypt:

8
The encrypted version of this character is: ||
The decrypted version of this character is: 8

C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q3.exe please enter a character you would like to encrypt:

M
The encrypted version of this character is: ||
The encrypted version of this character is: ||
The decrypted version of this character is: ||
The decrypted version of this character is: ||
The encrypted version of this character is: ||
The decrypted version of this character is: ||
The encrypted version of this character is: ||
The decrypted version of th
```

```
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>gcc PF-Lab-W05-Q4.c -o PF-Lab-W05-Q4.exe
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q4.exe
Please enter your age:
19
Please enter your income s for stable and u for unstable:
Please enter your credit score out of 850:
You are eligible for a loan....
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q4.exe
Please enter your age:
Please enter your income s for stable and u for unstable:
Please enter your credit score out of 850:
.
You are not eligible for a loan....
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q4.exe
Please enter your age:
Please enter your income s for stable and u for unstable:
Please enter your credit score out of 850:
You are eligible for a loan....
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q4.exe
Please enter your age:
Please enter your income s for stable and u for unstable:
Please enter your credit score out of 850:
300
You are not eligible for a loan....
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q4.exe
Please enter your age:
Please enter your income s for stable and u for unstable:
Please enter your credit score out of 850:
You are not eligible for a loan....
You are not eligible for a loan..
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q4.exe
Please enter your age:
13
Please enter your income s for stable and u for unstable:
Please enter your credit score out of 850:
You are not eligible for a loan....
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q4.exe
Please enter your age:
15
Please enter your income s for stable and u for unstable:
Please enter your credit score out of 850:
200
You are not eligible for a loan..
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>PF-Lab-W05-Q4.exe
Please enter your age:
Please enter your income s for stable and u for unstable:
Please enter your credit score out of 850:
119
You are not eligible for a loan....
C:\Users\Muhammad Abu Bakar\FAST'25-Uni\Fall'25-Sem1\PF-Lab Tasks\24k-0826\Week5>
```