

Roll no.: 7358

(Hamming Code)

The screenshot shows a Windows 10 desktop environment. The taskbar at the top includes icons for File Explorer, Microsoft Edge, and several pinned applications. The desktop background is a blue gradient with icons for 'Abneesh...', '7358_CNS', 'logs', 'barr', 'File System', and 'Trash'. A terminal window is open, displaying the following commands and output:

```

barry@DESKTOP-J9RSVA6: ~\Desktop\7358_CNS
└─$ cd Assignment_3
barry@DESKTOP-J9RSVA6: ~\Desktop\7358_CNS\Assignment_3
└─$ ls
receiver  receiver.cpp  sender  sender.cpp  socket.h  umang3.pcapng
barry@DESKTOP-J9RSVA6: ~\Desktop\7358_CNS\Assignment_3
└─$ ./receiver
Error: not able to connect
barry@DESKTOP-J9RSVA6: ~\Desktop\7358_CNS\Assignment_3
└─$ ./receiver
— Connection Successfull —
Sender :111101001010
Enter your option :
1. Without error
2. With error
1
Final message :111101001010
Binary :10101010
Original message :U
Sender :111001100110
Enter your option :
1. Without error
2. With error
2
Adding error at : 11
Final message :111001100100
Error found at : 11
Binary :10110110
Original message :m

```

A second terminal window is also open, showing the receiver's side of the application:

```

receiver receiver.cpp sender sender.cpp socket.h umang3.pcapng
barry@DESKTOP-J9RSVA6: ~\Desktop\7358_CNS\Assignment_3
└─$ ./s
sender sender.cpp socket.h
barry@DESKTOP-J9RSVA6: ~\Desktop\7358_CNS\Assignment_3
└─$ ./sender
Waiting for connection
— Connection Successfull —
Enter a character :
Umang
Binary : 10101010
Message : 111101001010
Enter a character :
Binary : 10110110
Message : 111001100110
Enter a character :
Binary : 10000110
Message : 011000000110
Enter a character :
Binary : 01110110
Message : 100111100110
Enter a character :
Binary : 11100110
Message : 101011000110
Enter a character :
[]

```

[illegible]