Report:

- Based on given set of Hex digit inputs, it is initially converted to Binary code (for this conversion a function is written name **Hex2Bin**)
- From the Binary Code, we find the opcode and using if-else statements, we call upon desired function where it supposed to belong to {Like R,I,S,U..etc}
- Then we find func3,func7,rs1,rs2,rd,imm…etc again using if-else functions{ Note: not all types have mentioned attributes, we will just find the attributes present in that particular type}.
- Now, based on value of the above attributes and their combinations we conclude which operation is must execute and what all registers used for that particular operation and print the assembly code
- In above step, we take care of negative integers for immediate values(i.e., by using creating function to find decimal number from signed binary number)
- And lastly, if at all the given hex digit dosen't fit in any of the given types, it is clear that the operation Is **Invalid** and thus gives out message **Invalid opearation.**