## Assignment\_Operatos

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Answer 1:
a.In arithmetic-logic unit(ALU which is within the
CPU), mathematical operations
like:addition, substraction, multiplication,
 and division are done in bit-level. To perform bit-level
operations in C programming, bitwise operators are
used. They are
 Bitwise AND(&), Bitwise OR(|), Bitwise XOR(^), Bitwise
complement(~),Bitwise shift left(<<) and shift right(>>).
 Syntax: operand1 &(any bitwise operator) operand2
 Example:5(Decimal)=00000101(Binary)
         4(Decimal)=00000100(Binary)
         5 & 4=00000101 & 00000100=00000100=4
         Result: 5 & 4=4
b. The conditional operator ?:, also know as the ternary
conditional operator evaluates a Boolean expression and
  returns the result of one of the two
expressions, depending on whether the boolean
expression evaluates to true or false.
  Syntax:variable = (condition) ? expressionTrue :
expressionFalse:
  Example: int a = x>y ? printf ("true") : printf ("false") ;
Answer 2:
#include <stdio.h>
#include <stdlib.h>
int main()
  int num1, num2;
  char ch;
```

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  puts("Simple Calculator.");
  puts("Enter add press '+', for substract press'-', for
multiply press'*', for divide press '/', for reminder press
'%'");
  scanf("%c",&ch);
  puts("Enter any two number.");
  scanf("%d",&num1);
  scanf("%d",&num2);
  int r:
  switch(ch)
    case '+':
      r=num1+num2;
      printf("Sum of %d and %d is %d", num1, num2,r);
      break:
    case '-':
      r=num1-num2;
      printf("Difference of %d and %d is %d", num1,
num2,r);
      break:
    case '*':
      r=num1*num2;
      printf("Product of %d and %d is %d", num1, num2,r
);
      break:
    case '/':
      r=num1/num2;
      printf("Divison of %d and %d is %d", num1, num2,r
);
```

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break;
  case '%':
    r=num1%num2;
    printf("Reminder of %d and %d is %d", num1,
num2,r);
    break;
    default:
       printf("Entered a wrong character");
    }
  return 0;
}
```