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ASSIGNMENT 2

Q1. WAP to print unit digit of a given no.

A.
```
# include <stdio.h>
int main ()
{
    int num, unit;
    printf ("enter a number : ");
    scanf ("%d", & num);
    unit = num % 10 ;
    printf ("unit digit of Number is : %d", unit);
    return 0;
}
```

Q2. WAP to print a given no. without its last digit.

A.
```
# include <stdio.h>
int main()
{
    int num, new_num ;
    printf ("enter a number : ");
    scanf (" %d ", & num);
    new_num = num/10 ;
    printf (" Number without its last digit is : %d",
                                        new_num);
    return 0;
}
```

Q3. WAP to swap two values of two int variables.

A.
```
# include <stdio.h>
int main()
{
    int a, b, temp;
    printf ("enter first NO. : ");
    scanf ("%d", &a);
    printf ("enter second NO. : ");
    scanf ("%d", &b);
    temp = a;
    a = b;
    b = temp;
    printf ("value of first No. is : %d and of
            second no. is : %d", a, b);

    return 0;
}
```

Q4. WAP to swap values of two int variables without using a third variable.

A.
```
# include <stdio.h>
int main()
{
    int a, b;
    printf ("enter first No. : ");
    scanf ("%d", &a);
    printf ("enter second No. : ");
    scanf ("%d", &b);
```

```
    a = a+b;
    b = a-b;
    a = a-b;
    printf ("value of first No. is %d and of second No. is %d",
                                                    a, b);
    return 0;
}
```

Q5. WAP to input a three-digit no. and display sum of digits.

A.
```
# include <stdio.h>
int main()
{
    int num, n, f, s, t, sum=0;
    printf ("Enter a Number : ");
    scanf ("%d", &num);
    n = num;
    f = n % 10;
    n /= 10;
    s = n % 10;
    n /= 10;
    t = n % 10;
    sum = f+s+t;
    printf ("sum of digits is : %d", sum);
    return 0;
}
```

Q6. WAP which takes a character as input and display its ASCII code.

A.
```
# include <stdio.h>
int main()
{
    char ch;
    printf("Enter a character:");
    scanf("%d", &ch);
    printf("ASCII code of character is: %d", ch);
    return 0;
}
```

Q7. WAP to find position of first 1 in LSB.

A.
```
# include <stdio.h>
int main()
{
    int n;
    printf("enter a no.:");
    scanf("%d", &n);
    (n&1) ? printf("LSB is 1"): printf("LSB is 0");
    return 0;
}
```

Q8. WAP to check whether the given no. is even or odd using a bitwise operator.

A.
```
# include <stdio.h>
int main()
{
    int n;
    printf("enter a no.:");
    scanf("%d", &n);
    (n & 1) ? printf("NO. is odd") : printf("NO. is even");
    return 0;
}
```

Q9. WAP to print size of an int, a float, a char and a double type variable.

A.
```
# include <stdio.h>
int main()
{
    printf("sizeof int is %d \n", sizeof(int));
    printf("sizeof char is %d \n", sizeof(char));
    printf("sizeof float is %d \n", sizeof(float));
    printf("sizeof double is %d \n", sizeof(double));
    return 0;
}
```

Q10. WAP to make last digit of a no. stored in a variable as zero.
(example - if x=2345 then make it x=2340).

A.
```
# include <stdio.h>
int main()
{
    int x;
    printf("Enter a no.:");
    scanf("%d", &x);
    x /= 10;
    x *= 10;
    printf("No. without last digit is : %d", x);
    return 0;
}
```

Q11. WAP to input a no. from user and also input a digit. Append a digit in the no. and print the resulting no. (eg- no:234 and digit = 9 then no.=2349).

A.
```
# include <stdio.h>
int main()
{
    int n, x;
    printf("enter a no. :");
    scanf("%d", &n);
    printf("enter no. to add as last digit :");
```

```
    scanf("%d", &x);
    n *= 10;
    n += x;
    printf("New no. is : %d", n);
    return 0;
}
```

Q12. Assume price of 1 USD is INR 76.23. WAP to take the amount in INR and convert it into USD.

A.
```
#include <stdio.h>
int main()
{
    float INR, USD;
    printf("Enter Amount in INR : ");
    scanf("%f", &INR);
    USD = INR/76.23;
    printf("Amount in USD is : $ %f", USD);
    return 0;
}
```

Q13. WAP to take a three digit number from user and rotate its digit by one position towards the right.

A.
```
#include <stdio.h>
int main()
{
    int num, last_digit;
    printf("enter a three digit no.:");
    scanf("%d", &num);
    last_digit = num % 10;
    num = num/10;
    num = last_digit * 100 + num;
    printf("New no. after rotation right by one position
            is : %d", num);
    return 0;
}
```