Assignment-6

1. Write a program to print size of an int, a float, a char and a double type variable
2. Write a program to find last digit of a given number
3. Write a program to find first digit of a given three-digit number
4. Write a program to find middle digit of a given three-digit number
5. Write a program to swap values of two int variables
6. Write a program to swap values of two int variables without using third variable
7. Write a program to make the last digit of a number stored in a variable as zero. (Example - if x=2345 then make it x=2340)
8. Write a program to input a number from the user and also input a digit. Append a digit in the number and print the resulting number. (Example - number=234 and digit=9 then the resulting number is 2349)
9. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and convert it into USD.
10. Write a program to take a three-digit number from the user and rotate its digits by one position towards the right.

Ans1:

#include<stdio.h>

#include<conio.h>

int main()

{

    printf("size of int data type=%d\n",sizeof(int));

    printf("size of char data type=%d\n",sizeof(char));

    printf("size of float data type=%d\n",sizeof(float));

    printf("size of double data type=%d\n",sizeof(double));

    getch();

}

Ans2:

#include<stdio.h>

#include<conio.h>

int main()

{

    int a,l;

    printf("Enter a number:\n");

    printf("a=");

    scanf("%d",&a);

    l=a%10;

    printf("Last digit is %d",l);

    getch();

}

Ans3:

#include<stdio.h>

#include<conio.h>

int main()

{

    int a,f;

    printf("Enter a three digit number:\n");

    printf("a=");

    scanf("%d",&a);

    f=(a/100);

    printf("First digit is %d",f);

    getch();

}

Ans4:

#include<stdio.h>

#include<conio.h>

int main()

{

    int a,m;

    printf("Enter a three digit number:\n");

    printf("a=");

    scanf("%d",&a);

    m=(a/10)%10;

    printf("Middle digit is %d",m);

    getch();

}

Ans5:

#include<stdio.h>

#include<conio.h>

int main()

{

    int a,b,c;

    printf("Enter two numbers:\n");

    printf("a=");

    scanf("%d",&a);

    printf("b=");

    scanf("%d",&b);

    printf("Before swapping\na=%d\nb=%d\n",a,b);

    c=a;

    a=b;

    b=c;

    printf("After swpping\na=%d\nb=%d",a,b);

    getch();

}

Ans6:

#include<stdio.h>

#include<conio.h>

int main()

{

    int a,b;

    printf("Enter two numbers:\n");

    printf("a=");

    scanf("%d",&a);

    printf("b=");

    scanf("%d",&b);

    printf("Before swapping\na=%d\nb=%d\n",a,b);

    a=a+b;

    b=a-b;

    a=a-b;

    printf("After swpping\na=%d\nb=%d",a,b);

    getch();

}

Ans7:

#include<stdio.h>

#include<conio.h>

int main()

{

    int a,b,c;

    printf("Enter a number:\n");

    scanf("%d",&a);

    b=a%10;

    c=a-b;

    printf("%d",c);

    getch();

}

Ans8:

#include<stdio.h>

#include<conio.h>

int main()

{

    int a,b,c;

    printf("Enter a number:\n");

    scanf("%d",&a);

    printf("Enter a digit to append:\n");

    scanf("%d",&b);

    c=a\*10+b;

    printf("Appended number is %d",c);

    getch();

}

Ans9:

#include<stdio.h>

#include<conio.h>

int main()

{

    float inr,usd;

    printf("Enter amount in INR:\n");

    scanf("%f",&inr);

    usd=inr/76.23;

    printf("%f",usd);

    getch();

}

Ans10:

#include<stdio.h>

#include<conio.h>

int main()

{

    int a,b,c,d;

    printf("Enter a three digit number:\n");

    scanf("%d",&a);

    b=a/10;

    c=a%10;

    d=c\*100+b;

    printf("%d",d);

    getch();

}