**Assignment – 2**

1. Write a program to print unit digit of a given number

#include<stdio.h>

int main()

{

int x, first;

printf("enter any number");

scanf("%d",&x);

first=x;

first=first%10;

printf("the unit digit is %d",first);

return 0;

}

2. Write a program to print a given number without its last digit.

#include<stdio.h>

int main()

{

int x,last;

printf("enter a number");

scanf("%d",&x);

last=x;

last=last/10;

printf("value is %d",last);

return 0;

}

3. Write a program to swap values of two int variables.

#include<stdio.h>

int main()

{

int x,y,temp;

printf("enter x and y");

scanf("%d %d",&x, &y);

temp=x;

x=y;

y=temp;

printf("the swap value of x is %d and y is %d",x,y);

return 0;

}

4. Write a program to swap values of two int variables without using a third variable.

#include<stdio.h>

int main()

{

int x,y;

printf("enter value of x and y");

scanf("%d%d",&x,&y);

x=x+y;

y=x-y;

x=x-y;

printf("swap value of x %d and y is %d", x,y);

return 0;

}

5. Write a program to input a three-digit number and display the sum of the digits.

#include<stdio.h>

int main()

{

int x,y,sum=0;

printf("enter a number");

scanf("%d",&x);

while(x>0)

{

y=x%10;

sum=sum+y;

x=x/10;

}

printf("sum of this number is %d",sum);

return 0;

}

6. Write a program which takes a character as an input and displays its ASCII code.

#include<stdio.h>

int main()

{

char x;

printf("enter a character");

scanf("%c",&x);

printf(" Ascii code is %d %c",x);

}

7. Write a program to find the position of first 1 in LSB.

8. Write a program to check whether the given number is even or odd using a bitwise operator.

#include<stdio.h>

int main()

{

int x;

printf("enter a number");

scanf("%d",&x);

if (x&1)

{

printf("the number is odd",x);

}

else

{

printf(" number is even",x);

}

return 0;

}

9. Write a program to print size of an int, a float, a char and a double type variable .

#include<stdio.h>

int main()

{

int intType;

float floatType;

double doubleType;

char charType;

printf("Size of int: %zu bytes\n", sizeof(intType));

printf("Size of float: %zu bytes\n", sizeof(floatType));

printf("Size of double: %zu bytes\n", sizeof(doubleType));

printf("Size of char: %zu byte\n", sizeof(charType));

return 0;

}

10. 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.

#include<stdio.h>

int main()

{

int x;

printf("enter a number");

scanf("%d",&x);

x=x/10;

x=x\*10;

printf("ans is %d",x);

return 0;

}

11. 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)

#include<stdio.h>

int main()

{

int x,n;

printf("enter a number ");

scanf("%d",&x);

printf("enter a digit ");

scanf("%d",&n);

x=x\*10 ;

x=x+n;

printf("new number is %d",x);

return 0;

}

12. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and convert it into USD.

13. Write a program to take a three-digit number from the user and rotate its digits by one position towards the right

#include<stdio.h>

int main()

{

int x,y,z;

printf("enter a number");

scanf("%d",&x);

y=x/10;

z=x%10;

x=z\*100+y;

printf("the new number is %d",x);

return 0;

}