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

Sol. #include<stdio.h>

int main()

{

int x;

printf("Enter the number\n");

scanf("%d",&x);

printf("%d",x%10);

return 0;

}

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

Sol. #include<stdio.h>

int main()

{

int x;

printf("Enter the number\n");

scanf("%d",&x);

printf("%d",x/10);

return 0;

}

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

Sol. #include<stdio.h>

int main()

{

int x,y,z;

printf("Enter the number\n");

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

z=x;

x=y;

y=z;

printf("%d %d",x,y);

return 0;

}

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

Sol. #include<stdio.h>

int main()

{

int a,b;

printf("Enter the number\n");

scanf("%d%d",&a,&b);

a=a+b;

b=a-b;

a=a-b;

printf("%d %d",a,b);

return 0;

}

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

Sol. #include<stdio.h>

int main()

{

int a,b,c;

printf("Enter the three digit number\n");

scanf("%d",&a);

c=a%10;

a=a/10;

b=a%10;

a=a/10;

printf("Sum is %d",a+b+c);

return 0;

}

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

Sol. #include<stdio.h>

int main()

{

char a;

printf("Enter the character\n");

scanf("%c",&a);

printf("ASCII code is %d",a);

return 0;

}

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

Sol. #include<stdio.h>

int main()

{

int x;

int count = 0,result = 0;

printf("Enter the number\n");

scanf("%d",&x);

while( x != 0)

{

result = x&1;

count++;

if(result == 1)

{

printf("%d",count);

break;

}

x = x>>1;

}

return 0;

}

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

Sol. #include<stdio.h>

int main()

{

int a;

int result;

printf("Enter the number\n");

scanf("%d",&a);

result = a&1;

if(result == 1)

printf("odd");

else

printf("even");

return 0;

}

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

Sol. #include<stdio.h>

int main()

{

int a;

char c;

float f;

double d;

printf("int = %d\n",sizeof(int));

printf("char = %d\n",sizeof(char));

printf("float = %d\n",sizeof(float));

printf("double = %d",sizeof(double));

return 0;

}

Q.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)Sol. #include<stdio.h>

int main()

{

int a;

printf("Enter the number\n");

scanf("%d",&a);

a=a/10;

printf("%d",a\*10);

return 0;

}

Q.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)

Sol. #include<stdio.h>

int main()

{

int a,b;

printf("Enter two numbers\n");

scanf("%d%d",&a,&b);

a=a\*10;

printf("%d",a+b);

return 0;

}

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

Sol. #include<stdio.h>

int main()

{

float a,b = 76.23;

printf("Enter the Indian Rupees\n");

scanf("%f",&a);

b=a/b;

printf("$%.2f",b);

return 0;

}

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

Sol. #include<stdio.h>

int main()

{

int a;

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

scanf("%d",&a);

a=a%10\*100+a/10;

printf("%d",a);

return 0;

}