Assingment 2

Question 1

// Write a program to print unit digit of a given number

#include <stdio.h>

int main()

{

  int num, unit\_digit;

  printf("Enter a number : ");

  scanf("%d", &num);

  unit\_digit = num % 10;

  printf("The unit digit of a given number is %d", unit\_digit);

  return 0;

}

Question 2

//Write a program to print a given number without its last digit

#include<stdio.h>

int main()

{

  int num,last\_digit,first\_digit;

  printf("Enter a number : ");

  scanf("%d",&num);

  last\_digit = num % 10;

  while(num>=10)

  {

    num = num / 10;

  }

  first\_digit = num;

  printf("The number without its last digit is %d",first\_digit);

  return 0;

}

Question 3

//Write a program to swap values of two int variables

#include<stdio.h>

int main()

{

  int a = 10;

  int b = 20;

  printf("Before swaping the value of a is %d and The value of B is %d",a,b);

  a = a\*b;

  b = a/b;

 int c = a+b;

  printf("\nAfter swaping the value of a is %d and value of B is %d",a,b);

  return 0;

}

Question 4

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

#include<stdio.h>

int main()

{

  int a = 5;

  int b = 6;

  printf("Before swaping a is %d and B is %d\n",a,b);

  a = a+b;

  b = a-b;

  a = a+b;

  printf("After swaping a is %d and B is %d",a,b);

  return 0;

}

Question 5

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

#include<stdio.h>

int main()

{

  int a = 5;

  int b = 6;

  printf("Before swaping a is %d and B is %d\n",a,b);

  a = a+b;

  b = a-b;

  a = a+b;

  printf("After swaping a is %d and B is %d",a,b);

  return 0;

}

Question 6

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

#include<stdio.h>

int main()

{

  char num;

  printf("Enter a number : ");

  scanf("%c",&num);

  printf("The ASCII code of the number is : %d",num);

  return 0;

}

Question 7

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

#include<stdio.h>

int main()

{

  int num;

  printf("Enter the number : ");

  scanf("%d",&num);

  if(num & 1)

  {

    printf("LSB of %d is set(1)",num);

  }

  else{

    printf("LSB of %d is unset(0)",num);

  }

  return 0;

}

Question 8

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

#include<stdio.h>

int main()

{

  int num;

  printf("Enter a number : ");

  scanf("%d",&num);

  if(num%2==0)

  {

    printf("The given number is even.");

  }else{

    printf("The given number is odd");

  }

  return 0;

}

Question 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;

  char chartype;

  float floattype;

  double doubletype;

  printf("The size of int is %1d\n",sizeof(inttype));

  printf("The size of char is %1d\n",sizeof(chartype));

  printf("The size of float is %1d\n",sizeof(floattype));

  printf("The size of double is %1d",sizeof(doubletype));

  return 0;

}

Question 10

//Write a program to make the last digit of a number stored in a variable as zero

#include<stdio.h>

int main()

{

  int num , lastdigit;

  printf("Enter the digit : ");

  scanf("%d",&num);

  lastdigit = num % 10;

  printf("The last digit of a number stored in a zero is %d",lastdigit);

  return 0;

}

Question 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

#include <stdio.h>

int main()

{

  int num;

  int digit;

  printf("Enter a number : ");

  scanf("%d",&num);

  printf("Enter a digit : ");

  scanf("%d",&digit);

  printf("The number and digit is %d%d", num, digit);

  return 0;

}

Question 12

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

#include<stdio.h>

int main()

{

  float usd;

  float ruppes;

  printf("Enter rupees :");

  scanf("%f",&ruppes);

  usd = ruppes\*76.23;

  printf("The amount INR is %f and it will in USD is %f.",ruppes,usd);

  return 0;

}

Question 13

Its very tought for me. Can’t get the logic behind this.