Assignment – 2

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Q1. Write a program to print unit digit of a given number

Ans #include <stdio.h>

**int** main()

{

**int** num , unit ;

printf("Enter a Number : ");

scanf("%d",&num);

unit = num % 10 ;

printf("Unit's place Number is : %d",unit);

}

Q2. Write a program to print a given number without its last digit.

Ans :- #include <stdio.h>

**int** main()

{

**int** num , new ;

printf("Enter a Number : ");

scanf("%d",&num);

new = num / 10 ;

printf("New Number is : %d",new);

}

Q3. Write a program to swap values of two int variables

Ans :- **int** main()

{ **int** a,b,c=0;

  printf("Enter Numbers :");

  scanf("%d %d", &a,&b);

  printf("Before Swap : \n a=%d, b=%d",a,b,c);

  c = a ;

  a = b ;

  b = c ;

  printf("\nAfter Swap : \na=%d, b=%d",a,b);

  return 0; }

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

Ans :- **int** main()

{ **int** a,b,c=0;

  printf("Enter Numbers :");

  scanf("%d %d", &a,&b);

  printf("Before Swap : \n a=%d, b=%d",a,b);

  a = a \* b ;

  b = a / b ;

  a = a / b ;

  printf("\nAfter Swap : \na=%d, b=%d",a,b);

  return 0;

}

Q5. Write a program to input a three-digit number and display the sum of the digits.

Ans :- #include <stdio.h>

**int** main()

{ **int** num, sum =0, rem, i;

  printf("Enter 3 Digit Number :");

  scanf("%d",&num);

  while(num!=0)

  { rem = num % 10 ;

    sum = sum + rem ;

    num = num / 10 ; }

  printf("Sum of Digits is %d",sum);

  return 0;

}

Q6. Write a program which takes a character as an input and displays its ASCII code.

Ans :- #include <stdio.h>

**int** main()

{ **char** A;

  printf("Enter a Character : ");

  scanf("%c",&A);

  printf("ASCII Code is :- %d",A);

  return 0;

}

Q7. Write a program to find the position of first 1 in LSB.

Ans :- ?

Q8. Write a program to check whether the given number is even or odd using a bitwise

operator.

Ans :- #include <stdio.h>

**int** main()

{ **int** num ;

  printf("Enter a Number :- ");

  scanf("%d",&num);

  if(num&1)

  printf("Odd Number");

  else

  printf("Even Number");

  return 0;

}

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

Ans :-

#include <stdio.h>

**int** main()

{ **int** a ; **char** b ; **float** c ; **double** d ;

  printf("Size of Integer is %d\n",sizeof(a));

  printf("Size of Character is %d\n",sizeof(b));

  printf("Size of Float is %d\n",sizeof(c));

  printf("Size of Double is %d",sizeof(d));

  return 0;

}

Q10. Write a program to make the last digit of a number stored in a variable as zero.

Ans :- **int** main()

{ **int** num;

  printf("Enter a Number :- ");

  scanf("%d",&num);

  num = num / 10 ;

  num = num \* 10 ;

  printf("New Number is %d",num);

  return 0;

}

Q11. 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.

**int** main()

{ **int** num, x ;

  printf("Enter a Number :- ");

  scanf("%d",&num);

  printf("Enter a Digit :- ");

  scanf("%d",&x);

  num = num \* 10 + x ;

  printf("New Number is %d",num);

  return 0;

}

Q12. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and

convert it into USD.

Ans :- #include <stdio.h>

**int** main()

{ **float** Rupee ;

**float** Dollar ;

  printf("Enter Rupees :- ");

  scanf("%f",&Rupee);

  Dollar = Rupee / 76.23 ;

  printf("%f Dollars",Dollar);

  return 0; }

Q13. Write a program to take a three-digit number from the user and rotate its digits by

one position towards the right.

Ans :- ?