A1

#include<stdio.h>

int main()

{

printf("Hello World!");

return 0;

}

A2

#include<stdio.h>

int main()

{

printf("Name = Rishabh singh solanki\n");

printf("Age = 17\n");

printf("Qualification = BCA 1st year\n");

printf("Specialization = Photoshop, Video editing, Blogger\n");

return 0;

}

A3

#include <stdio.h>

int main()

{

printf("rishabh singh soalnki\n");

char c;

printf("Enter a character: ");

scanf("%c", &c) ;

printf("ASCII value 0f %c = %d", c, c);

return 0;

}

A4

#include<stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

float english=80,maths=75,science=70,hindi=80,Social=79,c;

c=english+maths+science+hindi+Social;

printf("Percentage of 5 subjects = %f\n",(c/500)\*100);

return 0;

}

A5

#include <stdio.h>

int main()

{

printf(" Rishabh singh solanki\n");

float rad, area, peri, pi = 4.12;

printf("enter the radius of circle \n");

scanf("%f", &rad);

area = pi \* rad \* rad;

peri = 2 \* pi \* rad;

printf("area of circle is %f \n", area);

printf("perimeter of circle is %f \n", peri);

return 0;

}

A6

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

printf("39+69 = %d \n",39+69);

printf ("16\*10 = %d \n",16\*10);

printf ("18.20-3 = %f \n",18.20-3);

printf ("50/2 = %d\n",50/2);

return 0;

}

A7

#include<stdio.h>

// 2 variable swap without 3rd variable

int main()

{

printf("Rishabh singh solanki");

int a=30,b=60;

printf("before swap a=%d \n",a);

printf("before swap b=%d \n",b);

a=a+b;

b=a-b;

a=a-b;

printf("after swap a=%d \n",a);

printf("after swap b=%d \n",b) ;

return 0;

}

A8

#include<stdio.h>

// swap using 3rd variable

int main()

{

printf("Rishabh singh solanki\n");

int a=25,b=50,c;

printf ("before swap a= %d b= %d \n",a,b);

c=a;

a=b;

b=c;

printf("after swap a= %d b= %d \n",a,b);

return 0;

}

A9

#include <stdio.h>

int main()

{

int length, breadth;

printf("enter the length of rectangle\n");

scanf("%d", &length);

printf ("enter breadth of rectangle\n");

scanf("%d", &breadth);

printf("area of rectangle is %d", length\*breadth);

return 0;

}

A10

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki");

int age;

printf("enter your age\n");

scanf("%d", &age);

if (age >= 18)

{

printf("you are eligible for voting rights with age %d\n", age);

}

else

{

printf("sorry! you are not eligible for voting rights with age %d\n", age);

}

return 0;

}

A11

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int num1 = 80, num2 = 40, z;

z = (num1 > num2);

z ? printf("First number is greater than second") : printf("Second number is greater than First");

return 0;

}

A12

#include<stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int a;

printf("enter the value of a to determine whether it is odd or even\n");

scanf( "%d",&a);

if(a%2==0)

printf("a is an even number\n");

else

printf("a is an odd number" );

return 0;

}

A13

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

printf("to check whether a number is greater than 100 less than 1000 or not\n");

int num;

printf("enter a number\n");

scanf("%d", &num);

if ((num > 100) && (num < 1000))

{

printf("Yes\n");

}

else

{

printf("No");

}

return 0;

}

A14

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int a,square, num;

printf("Enter your number\n");

scanf("%d",&num);

a=num%10;

square=num\*num;

if(a == 5)

{

printf("Square of the given number is %d\n", square);

}

else

{

printf("Invalid number\n");

}

return 0;

}

A15

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int sales;

float salary1, salary2;

printf("Enter Total sales\n");

scanf("%d", &sales);

if (sales >= 100000)

salary1 = 3000 + (0.3000) + (1.1 \* 3000) + 500 + (sales \* 0.1) + 500;

{

printf("Your salary is %f\n", salary1);

}

if (sales < 100000)

{

salary2 = 3000 + (0.2 \* 3000) + (1.1 \* 3000) + 500 + (sales\* 0.05) + 200;

printf("Your salary is %f\n", salary2);

}

return 0;

}

A16

#include <stdio.h>

int main()

{

int a;

scanf("%d", &a);

while (a < 10)

{

printf("%d\n", a);

a++;

}

return 0;

}

A17

#include<stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int num,numm, sum= 0,a;

printf("Enter any number to check whether it is Armstrong or not = ");

scanf( "%d",&num );

numm=num;

while(num!=0)

{

a=num%10;

num=num/10;

sum=sum+(a\*a\*a);

}

if(sum==numm)

printf ("%d is an Armstrong number", numm);

else printf("%d is not an Armstrong number",numm);

return 0;

}

A18

#include <stdio.h>

int main()

{

// multiplication table of a given number with their sum in the end

printf("Rishabh singh solanki\n");

int num,a=1,sum=0;

printf("enter the number\n");

scanf("%d",&num);

while (a<=10)

{

printf("%d \* %d= %d\n",num,a,num\*a);

sum+=num\*a;

a++;

}

printf("sum = %4d",sum);

return 0;

}

A19

#include<stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int a=50;

a++;//post increment

printf("post Increment = %d\n",a);

//pre increment

printf("pre Increment = %d\n",++a);

//pre decrement

printf("pre decrement = %d\n",--a);

a--;//post decrement

printf("post decrement = %d\n",a);

return 0;

}

A20

#include<stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int a,b,c,ch;

printf("Enter the values of a&b:");

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

printf("Airthmetic operations");

printf("\n1.Addition");

printf("\n2.Subtraction");

printf("\n3.Multiplication");

printf("\n4.Division");

printf("\n5.Modulas");

printf("\nEnter your choice");

scanf("%d",&ch);

switch(ch)

{

case 1:

c = a + b;

printf("%d",c);

break;

case 2:

c = a - b;

printf("%d",c);

break;

case 3:

c = a\*b;

printf ("%d",c);

break;

case 4:

c = a/b;

printf("%d",c);

break;

case 5:

c = a%b;

printf("%d",c);

break;

default:

printf("\nWrong Input");

}

return 0;

}

A21

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int a = 2, b, prime = 1;

printf("enter the number\n");

scanf("%d", &b);

while (a < b)

{

if(b % a == 0)

{

prime = 0;

break;

}

a++;

}

if (prime == 0)

{

printf("%d is not a prime number\n", b);

}

else

{

printf("%d is a prime number\n", b);

}

return 0;

}

A22

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int num1, num2, num3, largest;

printf("Please Enter three different values\n");

scanf("%d %d %d", &num1, &num2, &num3);

largest = num1 > num2 ? (num1 > num3 ? num1: num3) : (num2 > num3 ? num2 : num3);

printf("Largest number = %d \n", largest);

return 0;

}

A23

#include <stdio.h>

#include <stdlib.h>

void main()

{

printf("Rishabh singh solanki\n");

int num;

printf("Enter a number\n");

scanf("%d", &num);

if (num % 2 == 0)

goto even;

else

goto odd;

even:

printf("%d is even\n", num);

exit(0);

odd:

printf("%d is odd\n", num);

}

A24

#include <stdio.h>

int main()

{

float c,f;

printf("Rishabh singh solanki\n");

printf("enter the temperature in celsius\n");

scanf("%f",&c);

f=(c\*1.8)+32;

printf("celsius to fahrenheite = %f degree \n",f);

return 0;

}

A25

#include <stdio.h>

#include <math.h>

int main()

{

printf("Rishabh singh solanki\n");

float principal, rate, time, si, ci, r;

printf("enter the principal amount\n");

scanf("%f", &principal);

printf("enter the rate of interest \n");

scanf("%f", &rate);

printf("enter the period of time \n");

scanf("%f", &time);

si = principal \* (rate / 100) \* time;

printf("Simple Interest = %F\n", si);

ci = principal \* pow(1 + rate / 100, time) - principal;

printf("Compound interest = %f\n", ci);

return 0;

}

A26

#include <stdio.h>

int main()

{

printf("Rishbh singh solanki\n");

int num = 1, n, factorial =1;

printf("enter your number \n");

scanf("%d", &n);

for ( num = 1; num <=n; num++)

{

factorial\*=num;

}

printf("factorial of %d = %4d\n", n, factorial);

return 0;

}

A27

#include <stdio.h>

// write a C program to find sum of all odd numbers between 1 to n.

int main()

{

printf(“Rishabh singh solanki \n");

int a, n, sum = 0;

printf("enter the value of n\n");

scanf("%d", &n);

for(a = 1; a <=n; a++)

{

if(a % 2 != 0)

{

printf("%d,",a);

sum += a;

}

}

printf("Sum = %2d", sum);

return 0;

}

A28

#include <stdio.h>

int main()

{

printf(“Rishabh singh solanki \n");

int num1 = 0, num2 = 1, a, num3, number;

printf("enter a number\n");

scanf("%d", &number);

printf("0, 1, ");

for ( a = 0; a <= number; a++)

{

num3 = num1 + num2;

printf("%d, ", num3);

num1 = num2;

num2 = num3;

}

return 0;

}

A29

#include <stdio.h>

int main()

{

printf("rishabh singh solanki\n");

int a, b, r, sum = 0;

printf("Enter a number\n");

scanf("%d", &a);

b = a;

while (a != 0)

{

r = a % 10;

sum = sum \* 10 + r;

a /= 10;

}

printf("after reverse = %d", sum);

return 0;

}

A30

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int a=0, num;

printf("enter the value of num \n");

scanf("%d", &num);

printf("\n");

do

{

printf("%d\n" , a+1);

a++;

} while (a < num);

return 0;

}

A31

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int a=1, num, sum = 0;

printf("enter the value of num\n");

scanf("%d", &num);

printf("\n");

do

{

printf("%d, square = %d\n",a, a\*a);

sum+=a;

a++;

} while (a <= num);

printf("Sum of digits = %d" , sum);

return 0;

}

A32

#include<stdio.h>

int main()

{

int intType;

float floatType;

char charType;

printf("Rishabh singh solanki\n");

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

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

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

return 0;

}

A33

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int i=0;

while (i<10)

{

printf("value of i = %d\n",i);

if(i==5)

break;

i++;

}

return 0;

}

A34

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

void morning();

void evening();

void night();

morning();

evening();

night();

return 0;

}

void morning()

{

printf("Good Morning\n");

}

void evening()

{

printf("Good Evening\n");

}

void night()

{

printf("Good Night\n");

}

A35

#include <stdio.h>

void sqr(int);

int main()

{

printf("Rishabh singh solanki\n");

int a = 0;

void sqr(int);

for (a = 1; a <= 5; a++)

sqr(a);

return 0;

}

void sqr(int b)

{

printf("square of number = %d\n", b \* b);

}

A36

#include <stdio.h>

float avg(float a, float b, float c);

float avg(float a, float b, float c)

{

return ((a + b + c) / 3) ;

}

int main()

{

printf("Rishabh singh solanki\n");

int num1, num2 , num3;

printf("Enter 3 numbers \n");

scanf("%d %d %d", &num1, &num2, &num3);

printf("Average of 3 numbers =%.2f", avg(num1, num2, num3));

return 0;

}

A37

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int a;

int sum(int a, int b);

a = sum(40, 10);

printf("C = 40 + 10 = %d", a);

return 0;

}

int sum(int a, int b)

{

return a+b;

}

A38

#include<stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int x,y;

int swap(int \* ,int \*);

printf("enter the value of x and y\n");

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

swap(&x,&y);

printf("\n x=%d y=%d",x,y);

return 0;

}

int swap(int \*a , int \*b)

{

int k;

k=\*a;

\*a=\*b;

\*b=k;

printf("\n a=%d b=%d",\*a,\*b);

}

A39

#include<stdio.h>

int main()

{

printf("\tRishabh singh solanki\n\n");

printf("\*\*\*\*\*\*\*Diamond Patter\*\*\*\*\*\*\*\*\n");

int num, i, j, value;

printf("Enter number of rows\n");

scanf("%d", &num);

value =num- 1;

for (j = 1; j <= num; j++)

{

for (i= 1; i <= value; i++)

printf(" ");

value--;

for (i = 1; i <= 2 \* j - 1; i++)

printf("\*");

printf("\n");

}

value = 1;

for (j = 1; j <= num - 1; j++)

{

for (i = 1; i <= value; i++)

printf(" ");

value++;

for (i = 1 ; i <= 2 \*(num - j)- 1; i++)

printf("\*");

printf ("\n");

}

return 0;

}

A40

#include <stdio.h>

int main()

{

printf("Rishabh singh solanki\n");

int num,value = 1;

printf("Enter the number of rows:");

scanf("%d", &num);

for (int i = 1; i <= num; i++)

{

for (int j = 1; j <= i; ++j)

{

printf("%3d", value);

++value;

}

printf("\n");

}

return 0;

}

A41

#include <stdio.h>

int main()

{

int i, j,lines;

char ch='A';

printf("Rishabh singh solanki\n");

printf("Enter the number of lines");

scanf("%d", &lines);

for (i = 1; i <= lines; i++)

{

for (j = 1; j <= i; ++j)

{

printf("%c ", ch++);

}

printf("\n");

}

return 0;

}

A42

#include<stdio.h>

#include<stdlib.h>

int X, sum;

void main(int);

void main(int x)

{

sum=sum+x;

printf ("\nx=%d sum=%d",x,sum);

if(x==6)

exit(0);

main(++x);

}

A43

#include <stdio.h>

int sumofDigits (int num);

int main()

{

int num, sum;

printf("Rishabh singh solanki\n");

printf("Enter any number to find sum of digits: ");

scanf("%d" , &num);

sum = sumofDigits(num);

printf("Sum of digits of %d = %d" , num, sum);

return 0;

}

int sumofDigits(int num)

{

if(num == 0)

return 0;

return ((num % 10) + sumofDigits(num / 10));

}

A44

#include<stdio.h>

int main()

{

int dividend, divisor, quotient, remainder;

printf("Rishabh singh solanki\n");

printf("Enter dividend: ");

scanf("%d", &dividend);

printf("Enter divisor: ");

scanf("%d", &divisor);

quotient = dividend / divisor;

remainder = dividend % divisor;

printf("Quotient =%d\n", quotient);

printf("Remainder =%d ", remainder);

return 0;

}

A45

#include <stdio.h>

int main()

{

int \*p,\*\*q,i;

int val[7] = { 11, 22, 33, 44, 55, 66, 77 } ;

p = val;

q = &p;

printf("rishabh singh solanki\n");

for (int i = 0; i<7; i++)

{

printf("val[%d]: value is %d\n", i,\*\*q );

p++;

}

return 0;

}