# Question No. 1

#include <iostream>

using namespace std;

int main()

{

int marks, num, sum;

float average;

do

{

cout << "Input marks of student: ";

cin >> marks;

sum = sum + marks;

num++;

average = sum / 10;

}

while(num<10);

{

cout << "The sum is: " << sum << endl;

cout << "The average is: " << average << endl;

}

return 0;

}

# Output:

# Question No. 2

#include <iostream>

using namespace std;

int main()

{

int num = 1;

char gender;

int males = 0;

int females = 0;

do

{

cout << "Enter (M,m) for Male & (F,f) for Female: ";

cin >> gender;

if(gender=='M'||gender=='m')

males++;

if(gender=='F'||gender=='f')

females++;

num++;

}

while(num<=10);

{

num++;

}

cout << " \nNumber of Males are: " << males << endl;

cout << "Number of Females are: " << females << endl;

return 0;

}

# Output:

# Question No. 3

#include <iostream>

using namespace std;

int main()

{

char option;

float num1, num2;

int count;

do

{

cout << "Enter first Number: ";

cin >> num1;

cout << "Enter second Number: ";

cin >> num2;

cout << "Enter operand: ";

cin >> option;

if(option=='+')

cout << "The addition of " << num1 << " and " << num2 << " is : " << num1 + num2 << endl;

if(option=='-')

cout << "The subtraction of " << num1 << " and " << num2 << " is : " << num1 - num2 << endl;

if(option=='\*')

cout << "The multiplication of " << num1 << " and " << num2 << " is : " << num1 \* num2 << endl;

if(option=='/')

cout << "The division of " << num1 << " and " << num2 << " is : " << num1 / num2 << endl;

}while(option!='e');

cout << "\nOpertaion Exited";

return 0;

}

# Output:

# Question No. 4

#include <iostream>

using namespace std;

int main()

{

int x, reverse=0, rem;

cout << "Enter the number: ";

cin >> x;

do

{

rem = x % 10;

reverse = reverse \* 10 + rem;

x = x / 10;

}

while(x!=0);

cout << "The reverse of given Number is: " << reverse << endl;

return 0;

}

# Output:

# Question No. 5

#include <iostream>

using namespace std;

int main()

{

int num;

int max;

int min;

int i = 1;

max = 0;

min = 99999;

do

{

cout << " Enter any Number: ";

cin >> num;

if(num>max)

max = num;

if(num<min)

min = num;

i++;

}

while(i<=10);

{

cout << "\nThe Maximum Number is: " << max;

cout << "\nThe Minimum Number is: " << min;

}

return 0;

}

# Output:

# Question No. 6

#include <iostream>

using namespace std;

int main()

{

int num;

int first = 0;

int second = 1;

int next;

cout << "Enter the boundary to be printed in the fibonacci series: " << endl;

cin >> num;

cout << "Fibonacci Serires: "<< first << " " << second;

do

{

next = first + second;

if(next > num)

{

break;

}

cout << " " << next;

first = second;

second = next;

}

while(1);

return 0;

}

# Output:

# Question No. 7(a)

#include <iostream>

using namespace std;

int main()

{

for(int j = 1; j <= 5; j++)

{

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

{

cout << "\*";

}

cout << "\n\n";

}

}

# Output:

# Question No. 7(b)

#include <iostream>

using namespace std;

int main()

{

for(int i = 5; i >= 1; i--)

{

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

{

cout << "\*";

}

cout << "\n\n";

}

return 0;

}

# Output:

# Question No. 7(c)

#include <iostream>

using namespace std;

int main()

{

for(int i = 5; i >= 0; i--)

{

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

{

cout << "\*";

}

cout << "\n\n";

}

return 0;

}

# Output:

# Question No. 7(d)

#include <iostream>

using namespace std;

int main()

{

for(int i = 1; i <= 5; i++)

{

for(int m = 5; m > i; m--)

{

cout << " ";

}

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

{

cout << "\*";

}

cout << "\n\n";

}

return 0;

}

# Output:

# Question No. 7

#include <iostream>

using namespace std;

int main()

{

for(int i = 1; i <= 5; i++)

{

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

{

cout << "\*" ;

}

cout << "\n\n";

}

cout << endl;

for(int i = 5; i >= 1; i--)

{

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

{

cout << "\*";

}

cout << "\n\n";

}

cout << endl;

for(int i = 5; i >= 0; i--)

{

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

{

cout << "\*";

}

cout << "\n\n";

}

for(int i = 1; i <= 5; i++)

{

for(int m = 5; m > i; m--)

{

cout << " ";

}

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

{

cout << "\*";

}

cout << "\n\n";

}

return 0;-

}

# Output:

# Question No. 8

#include <iostream>

using namespace std;

int main()

{

int n1, n2, n3, n4, n5;

cout << "Enter 5 Numbers: ";

cin >> n1 >> n2 >> n3 >> n4 >> n5;

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

{

for(int a = 1; a <= n1; a++)

{

cout <<"#";

}

cout << "\n";

}

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

{

for(int a = 1; a <= n2; a++)

{

cout <<"#";

}

cout << "\n";

}

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

{

for(int a = 1; a <= n3; a++)

{

cout <<"#";

}

cout << "\n";

}

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

{

for(int a = 1; a <= n4; a++)

{

cout <<"#";

}

cout << "\n";

}

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

{

for(int a = 1; a <= n5; a++)

{

cout <<"#";

}

cout << "\n";

}

return 0;

}

# Output:

# Question No. 9

#include <iostream>

using namespace std;

int main()

{

for(int i = 1; i <= 5; i++)

{

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

{

cout << i \* a << " ";

}

cout << "\n";

}

return 0;

}

# Output:

# Question No. 10

#include <iostream>

using namespace std;

void sign1();

void sign2();

void sign3();

int main()

{

sign1();

cout << "\n";

sign2();

cout << "\n";

sign3();

cout << "\n";

}

void sign1(){

for(int i = 0; i <= 20; i++)

cout << "\*";

}

void sign2(){

for(int i = 0; i <= 20; i++)

cout << "$";

}

void sign3(){

for(int i = 0; i <= 20; i++)

cout << "@";

}

# Output:

# Question No. 11

#include <iostream>

using namespace std;

void minMax();

int main()

{

minMax();

}

void minMax()

{

int num;

int max;

int min;

int i = 1;

max = 0;

min = 99999;

do

{

cout << " Enter any Number: ";

cin >> num;

if(num>max)

max = num;

if(num<min)

min = num;

i++;

}

while(i<=5);

{

cout << "\nThe Maximum Number is: " << max;

cout << "\nThe Minimum Number is: " << min;

}

}

# Output:

# Question No. 12

#include <iostream>

using namespace std;

int cal();

int main()

{

cal();

}

int cal()

{

int n1, n2, n3, n4, n5;

float average;

cout << "Enter marks: ";

cin >> n1 >> n2 >> n3 >> n4 >> n5;

average = (n1 + n2 + n3 + n4 + n5) / 5;

cout << "\nAverage = " << average;

}

# Output:

# Question No. 13

#include <iostream>

using namespace std;

void display();

int main()

{

display();

}

void display()

{

for(int i = 1; i <= 10; i++)

{

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

{

cout << "#";

}

cout << "\n";

}

}

# Output:

# Question No. 14

#include <iostream>

using namespace std;

void evenOdd();

int main()

{

evenOdd();

}

void evenOdd()

{

int num;

cout << "Enter a Number: ";

cin >> num;

if(num%2==0)

{

cout << "\n\t"<< num << " is a Even Number." << endl;

}

if(num%2!=0)

{

cout << "\n\t" << num << " is a Odd Number." << endl;

}

}

# Output:

# Question No. 15

#include <iostream>

using namespace std;

void TenSpace();

int main()

{

TenSpace();

}

void TenSpace()

{

cout << "First";

for(int i = 1; i <= 10; i++)

{

cout << " ";

}

cout << "Last";

}

# Output:

# Question No. 16

#include <iostream>

using namespace std;

void star();

int main()

{

star();

star();

star();

star();

star();

}

void star()

{

for(int a = 1; a <= 10; a++)

{

for(int m = 1; m <= a; m++)

{

cout << "\*";

}

cout << "\n";

}

}

# Output:

# Question No. 17

#include <iostream>

using namespace std;

void encrypt();

void decrypt();

int main()

{

encrypt();

decrypt();

}

void encrypt()

{

int num, num1, num2, num3, num4;

do{

cout << "Encrypt the four digit Number: ";

cin >> num;

if(num>9999||num<1000)

{

cout << "Invalid Number!!!, Kindly Enter a four digit Number" << endl;

}

else

break;

}

while(1);

{

num4 = num % 10;

num = num / 10;

num3 = num % 10;

num = num / 10;

num2 = num % 10;

num = num / 10;

num1 = num % 10;

num = num / 10;

}

cout << "The encrypted four digit Number is: " << num3 << num4 << num1 <<num2;

}

void decrypt()

{

int num, num1, num2, num3, num4;

do{

cout << "\nDecrypt the four digit Number: ";

cin >> num;

if(num>9999||num<1000)

{

cout << "Invalid Number!!!\t Enter a four digit Number" << endl;

}

else

break;

}

while(1);

{

num4 = num % 10;

num = num / 10;

num3 = num % 10;

num = num / 10;

num2 = num % 10;

num = num / 10;

num1 = num % 10;

num = num / 10;

}

cout << "The decrypted four digit Number is: " << num3 << num4 << num1 <<num2;

}

# Output: