**Assignment-2**

1. Check whether a character is a vowel or consonant

Code:

#include <stdio.h>

#include <ctype.h>

int main(){

char a;

printf("Enter a character -> "); scanf("%c",&a);

if (isupper(a)){

a=tolower(a);

} printf("\n");

switch (a){

case 'a': printf("Is vowel"); break;

case 'e': printf("Is vowel"); break;

case 'i': printf("Is vowel"); break;

case 'o': printf("Is vowel"); break;

case 'u': printf("Is vowel"); break;

default: printf("Is consonant"); break;

}

return 0;

}

Output:



2. Print individual numbers in a number

Code:

#include <stdio.h>

int main(){

int n, j;

printf("Enter a number : "); scanf("%d",&n);

while(n!=0){

j=n%10;

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

n=n/10;

}

}

Output:



3. Print greatest of two numbers using ternary operator

Code:

#include <stdio.h>

int main(){

int n1,n2;

printf("Enter two numbers to compare : "); scanf("%d %d",&n1,&n2);

(n1>n2) ? printf("%d is greater than %d",n1,n2) : printf("%d is greater than %d",n2,n1);

return 0;

}

Output:



4. Print pascal's Triangle

Code:

#include <stdio.h>

int main(){

int r,cn=1;

printf("Enter the number of rows : "); scanf("%d",&r);

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

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

printf("%d ", cn);

cn++;

}

printf("\n");

}

}

Output:



5. Print days of week using switch case

Code:

#include <stdio.h>

int main(){

int ch;

printf("Enter the number (1-7) : "); scanf("%d",&ch);

switch(ch){

case 1: printf("Sunday"); break;

case 2: printf("Monday"); break;

case 3: printf("Tuesday"); break;

case 4: printf("Wednesday"); break;

case 5: printf("Thursday"); break;

case 6: printf("Friday"); break;

case 7: printf("Saturday"); break;

default: printf("There are only 7 days in a week on earth. \nAre you alien!?"); break;

}

return 0;

}

Output:



6. Printing numbers in reverse order from 10 to 1

Code:

#include <stdio.h>

int main(){

for (int i=10; i>0; i--){

printf("%d ", i);

}

return 0;

}

Output:



7. Comparing 3 numbers using ternary operator

Code:

#include <stdio.h>

int main(){

int n1, n2, n3;

printf("Enter three numbers to compare : "); scanf("%d %d %d",&n1,&n2,&n3);

int res = (n1>n2) ? ((n1>n3) ? n1 : n3) : ((n2>n3) ? n2 : n3);

printf("Greatest of the three inputs is %d", res);

return 0;

}

Output:



8. Find cube root of a number

Code:

#include <stdio.h>

#include <math.h>

int main(){

int n; printf("Enter a number to get its cube root : "); scanf("%d",&n);

float res = pow(n,0.333333);

printf("Cube root of the number is : %.2f", res);

}

Output:



9. Printing number(Text) by taking integer input

Code:

#include <stdio.h>

int main(){

int ch; printf("Enter a number from 1-10 : "); scanf("%d",&ch);

switch(ch){

case 1: printf("one"); break;

case 2: printf("two"); break;

case 3: printf("three"); break;

case 4: printf("four"); break;

case 5: printf("five"); break;

case 6: printf("six"); break;

case 7: printf("seven"); break;

case 8: printf("eight"); break;

case 9: printf("nine"); break;

case 10: printf("ten"); break;

default: printf("enter correct number."); break;

}

return 0;

}

Output:



10. Print even numbers

Code:

#include <stdio.h>

int main(){

int r; printf("Enter range (0-?) : "); scanf("%d",&r);

for (int j=0; j<=r; j++){

if (j%2==0){

printf("%d ",j);

}

}

}

Output:

