**Question No :-1**

#include <stdio.h>

int main() {

int num1, num2, num3, max;

printf("Enter three numbers: ");

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

// using conditional operator to find maximum

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

printf("Maximum number is: %d", max);

return 0;

}

**Question No:-2**

#include <stdio.h>

int main() {

char ch;

printf("Enter a character: ");

scanf("%c", &ch);

(ch >= 'a' && ch <= 'z' || ch >= 'A' && ch <= 'Z') ? printf("%c is an alphabet.", ch) : printf("%c is not an alphabet.", ch);

return 0;

}

**Question No :-3**

#include <stdio.h>

int main() {

int n, i, sum=0;

printf("Enter the value of n: ");

scanf("%d", &n);

for(i=1; i<=n; i+=2) {

sum += i;

}

printf("Sum of all odd numbers from 1 to %d is %d", n, sum);

return 0;

}

**Question No :-4**

#include <stdio.h>

#include <string.h>

int main()

{

char str[100], result;

int i, len;

int max = -1;

int freq[256] = {0};

printf("\n Please Enter any String : ");

gets(str);

len = strlen(str);

for(i = 0; i < len; i++)

{

freq[str[i]]++;

}

for(i = 0; i < len; i++)

{

if(max < freq[str[i]])

{

max = freq[str[i]];

result = str[i];

}

}

printf("\n The Maximum Occurring Character in a Given String = %c ", result);

return 0;

}

**Question No :- 5**

The error in the code is that the func() function is not declared before it is used in the main() function. To fix this error, we can either declare the func() function before the main() function, or we can include a function prototype for func() before the main() function.

#include <stdio.h>

int tmp = 20;

void func(); // function prototype

int main() {

printf("%d ", tmp);

func();

printf("%d ", tmp);

return 0;

}

void func() {

static int tmp = 10;

printf("%d ", tmp);

}

Output:- 20 10 20

**Question No :-6**

The error in the code is that the printf statement is missing a format specifier. It should be %d instead of %dn.

Here's the corrected code:

#include <stdio.h>

#include <unistd.h>

int main() {

int a = 10;

if (fork() == 0)

a++;

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

return 0;

}

**Question No :-7**

#include <stdio.h>

int main() {

int a = 1;

while (a <= 100) {

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

a++;

}

return 0;

}

**Question No :-9**

The output of the program will be 1.

**Question No :- 10**

#include <stdio.h>

#include <string.h>

#define MAX\_NAMES 100

#define MAX\_NAME\_LEN 100

int compareNames(char name1[], char name2[], char order) {

if (order == 'A') {

return strcmp(name1, name2);

} else {

return strcmp(name2, name1);

}

}

int main() {

char names[MAX\_NAMES][MAX\_NAME\_LEN];

char temp[MAX\_NAME\_LEN];

int numNames, i, j;

char order;

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

scanf("%d", &numNames);

printf("Enter the names:\n");

for (i = 0; i < numNames; i++) {

scanf("%s", names[i]);

}

printf("Enter the sorting order (A/D): ");

scanf(" %c", &order);

for (i = 0; i < numNames-1; i++) {

for (j = 0; j < numNames-i-1; j++) {

if (compareNames(names[j], names[j+1], order) > 0) {

strcpy(temp, names[j]);

strcpy(names[j], names[j+1]);

strcpy(names[j+1], temp);

}

}

}

printf("Sorted names:\n");

for (i = 0; i < numNames; i++) {

printf("%s\n", names[i]);

}

return 0;

}