**MCQ Questions - 1 Mark**

1. What will happen if the following C code is executed?

#include <stdio.h>

int main()

{

int main = 3;

printf("%d", main);

return 0;

}

a) It will cause a compile-time error

b) It will cause a run-time error

**c) It will run without any error and prints 3**

d) It will experience infinite looping

2. What will be the output of the following C code?

#include <stdio.h>

int main()

{

signed char chr;

chr = 128;

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

return 0;

}

a) 128

**b) -128**

c) Depends on the compiler

d) None of the mentioned

3. What will be the output of the following C code?

#include <stdio.h>

int main()

{

int x = 2, y = 1;

x \*= x + y;

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

return 0;

}

a) 5

**b) 6**

c) Undefined behavior

d) Compile time error

4. What will be the output of the following C code?

#include <stdio.h>

int main()

{

int x = 2, y = 2;

x /= x / y;

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

return 0;

}

**a) 2**

b) 1

c) 0.5

d) Undefined behavior

5. What will be the output of the following C code?

#include <stdio.h>

int main()

{

int x = 1, y = 0;

x &&= y;

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

}

**a) Compile time error**

b) 1

c) 0

d) Undefined behavior

6. What is the output of the C Program.?

int main()

{

if( 4 > 5 )

printf("Hurray..\n");

printf("Yes");

return 0;

}

**A) Yes**

B) Hurray..

Yes

C) Hurray..Yes

D) No Output

7. What is the output of the C Program.?

int main()

{

if( 4 < 5 )

printf("Hurray..\n");

printf("Yes");

else

printf("England");

return 0;

}

A) Hurray..Yes

B) Hurray..

Yes

**C) Compiler error**

D) None of the above

8. What is the output of the C Program.?

int main()

{

if( 10 < 9 )

printf("Hurray..\n");

else if(4 > 2)

printf("England");

return 0;

}

**A) England**

B) Hurray..

C) Compiler error for missing else

D) None of the above

9. What is the output of C Program.?

#include <stdio.h>

int main()

{

int x=5;

printf("%d", x=7);

return 0;

}

**a) 7**

b) 5

c) Compile time error

d) Undefined behavior

`10. What is the output of C Program.?

#include <stdio.h>

int main()

{

int x=5;

printf("%d", x==7);

return 0;

}

**a) 0**

b) 7

c) Compile time error

d) Undefined behavior

**MCQ Questions - 2 Marks**

1. What will be output if you will compile and execute the following c code?

#include<stdio.h>

int main()

{

int a=4,b=3,c=3,d=5;

int ans = a/b\*c+d/2;

printf("%d",ans);

return 0;

}

A.2

B.3

C.4

**D.5**

2. What will be output if you will compile and execute the following c code?

#include<stdio.h>

int main(){

int a=3;

if(a==2){

a =a>>1;

printf("%d",a);

}

else{

a = a<<2;

printf("%d",a);

}

return 0;

}

A.16

B.8

**C.12**

D.24

3. What will be output if you will compile and execute the following c code?

#include <stdio.h>

void main()

{

int i = 0;

if (i == 0)

{

goto label;

}

label: printf("Hello");

}

**A.Hello**

B.Hello Hello

C.No output

D.Error

4. What will be output if you will compile and execute the following c code?

#include<stdio.h>

int main()

{

int x, y, z;

x = 9;

y = 10;

z = x == y;

printf("%d", ++x);

return 0;

}

A.9

**B.10**

C.0

D.1

5. What will be output if you will compile and execute the following c code?

#include <stdio.h>

int main()

{

int a=5;

switch(a)

{

case 0: printf("0 "); break;

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

case 5: printf("5 ");

default: printf("Go ");

}

a=5;

switch(a)

{

case 0: printf("0 ");break;

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

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

default: printf("Go "); break;

}

return 0;

}

**A.5 Go 5**

B. 5 5 Go

C.5 Go Go

D.5

**CODING QUESTION 5 MARKS**

**Write a program to take input of 2 strings, S1 and then S2. Then print S2 before S1.**

#include "stdio.h"

int main(){

char s1[1000];

char s2[1000];

scanf("%s", &s1);

scanf("%s", &s2);

printf("%s", s2);

printf("%s", s1);

return 0;

}

**Test Cases:**

| **Test case 1** | **Test case 2** | **Test case 3** | **Test case 4** | **Test case 5** |
| --- | --- | --- | --- | --- |
| **Input**  Chitkara  University  **Output**  UniversityChitkara | **Input**  Bulls  Eye  **Output**  EyeBulls | **Input**  Ab  Bc  **Output**  BcAb | **Input**  jab  Pun  **Output**  Punjab | **Input**  Code  I  **Output**  ICode |

**Write a program to implement a calculator that performs addition, substraction, multiplication and division using switch case. Use keyword ‘a’ for addition, ‘s’ for substraction, ‘m’ for multiplication, ‘d’ for division.**

#include "stdio.h"

int main(){

char ch;

int a;

int b;

scanf("%c",&ch);

scanf("%d",&a);

scanf("%d",&b);

switch (ch) {

case 'a':

printf("%d", a+b);

break;

case 's':

printf("%d", a-b);

case 'm':

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

case 'd':

printf("%d", a/b);

default:

printf("NOT VALID");

}

return 0;

}

**Test Cases:**

| **Test case 1** | **Test case 2** | **Test case 3** | **Test case 4** | **Test case 5** |
| --- | --- | --- | --- | --- |
| **Input**  a  10  20  **Output**  30 | **Input**  m  4  5  **Output**  20 | **Input**  s  17  10  **Output**  7 | **Input**  s  0  1  **Output**  -1 | **Input**  m  5  15  **Output**  75 |

**Coding Questions - 10 Marks**

1. **We have given a number of days as an input, we want to display years, weeks and days formed by given input days. Write a program to find it.**

Ans:

#include <stdio.h>

int main()

{

int ndays = 0;

int years = 0;

int weeks = 0;

int days = 0;

printf("Enter days: ");

scanf("%d", &ndays);

years = ndays / 365;

weeks = (ndays % 365) / 7;

days = (ndays % 365) % 7;

printf("%d years, %d weeks and %d days\n", years, weeks, days);

return 0;

}

|  | **Test Case 1** | **Test Case 2** | **Test Case 3** |
| --- | --- | --- | --- |
| **Input** | 5986 | 6578 | 7868 |
| **Output** | 16 years, 20 weeks and 6 days | 18 years, 1 weeks and 1 days | 21 years, 29 weeks and 0 days |