**MCQ Questions - 1 Mark**

1. What is the sizeof(char) in a 32-bit C compiler?

a) 1 bit

b) 2 bits

**c) 1 Byte**

d) 2 Bytes

2. Which of the following is not an operator in C?

a) ,

b) sizeof()

c) ~

**d) $**

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

#include <stdio.h>

void main()

{

1 < 2 ? return 1 : return 2;

}

a) returns 1

b) returns 2

c) Varies

**d) Compile time error**

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

#include <stdio.h>

void main()

{

int k = 8;

int m = 7;

k < m ? k = k + 1 : m = m + 1;

printf("%d", k);

}

**a) Compile time error**

b) 9

c) 8

d) Run time error

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

#include <stdio.h>

void main()

{

int x = 0;

if (x = 0)

printf("Its zero\n");

else

printf("Its not zero\n");

}

**a) Its not zero**

b) Its zero

c) Run time error

d) None

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

int main()

{

int a=0;

a = 10 + 5 \* 2 \* 8 / 2 + 4;

printf("%d", a);

return 0;

}

A) 124

**B) 54**

C) 23

D) 404

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

int main()

{

int a=0;

a = 10 + 2 \* 12 /(3\*2) + 5;

printf("%d", a);

return 0;

}

A) 31

**B) 19**

C) 11

D) 29

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

int main()

{

float a=10.0;

a = a % 3;

printf("%f", a);

return 0;

}

A) 0

B) 1

C) 1.000000

**D) Compiler error.**

9. What is the output of C Program.?

#include "stdio.h"

int main()

{

int x, y = 5, z = 5;

x = y == z;

printf("%d", x);

return 0;

}

**a) 1**

b) 0

c) Compile time error

d) Undefined behavior

10. What is the output of C Program.?

#include <stdio.h>

int main()

{

    int i = 1, 2, 3;

    printf("%d", i);

    return 0;

}

a) 1

b) 3

**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=2,c=5,d=5;

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

printf("%d",ans);

return 0;

}

A.10

**B.12**

C.14

D.0

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

#include<stdio.h>

int main(){

int a=4;

if(a==4){

a = (a&7);

printf("%d",a);

}

else{

a = a>>2;

printf("%d",a);

}

return 0;

}

**A.4**

B.2

C.8

D.1

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

#include <stdio.h>

void main()

{

int i = 1;

if (i == 0)

{

goto label1;

label2: printf("There");

}

else

{

printf("Hi ");

goto label2;

label1: printf("Hello");

}

}

**A.Hi There**

B.There Hi

C.Hello There

D.Hello Hi There

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

#include <stdio.h>

int main()

{

int i = (3,1,2);

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

return 0;

}

A.4

B.2

C.3

**d.ERROR**

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

#include <stdio.h>

int main()

{

int a=2;

switch(a)

{

case 2: printf("0 "); break;

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

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

default: printf("Go ");

}

switch(a)

{

case 2: printf("0 ");break;

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

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

default: printf("Go "); break;

}

printf("Done!");

return 0;

}

A.0 Go 0 Go Done!

B.0 Go 0 Done!

**C.0 0 Done!**

d.Done!

**Coding Questions - 5 Marks**

**1.** **Write a program to take input for the month name and return the number of days in the month using switch case.**

#include "stdio.h"

int main(){

int month=1;

scanf("%d",&month);

switch (month) {

case 1:

case 3:

case 5:

case 7:

case 8:

case 10:

case 12:

printf("%d",31);

break;

case 4:

case 6:

case 9:

case 11:

printf("%d",30);

break;

case 2:

printf("%d",28);

break;

default:

printf("Month does not Exist");

}

return 0;

}

**Test Cases:**

| **Test case 1** | **Test case 2** | **Test case 3** | **Test case 4** | **Test case 5** |
| --- | --- | --- | --- | --- |
| **Input**  1  **Output**  31 | **Input**  2  **Output**  28 | **Input**  4  **Output**  30 | **Input**  9  **Output**  30 | **Input**  12  **Output**  31 |

**2.** **Write a program to take input of length of side of the square and print its area and perimeter.**

#include "stdio.h"

int main(){

int l=0;

scanf("%d",&l);

int area= l\*l;

int perimeter= 2\*(l+l);

printf("%d ", area);

printf("%d", perimeter);

return 0;

}

**Test Cases:**

| **Test case 1** | **Test case 2** | **Test case 3** | **Test case 4** | **Test case 5** |
| --- | --- | --- | --- | --- |
| **Input**  10  **Output**  100 40 | **Input**  4  **Output**  16 16 | **Input**  7  **Output**  49 28 | **Input**  15  **Output**  225 60 | **Input**  5  **Output**  25 20 |

**Coding Questions - 10 Marks**

1. **In an exam a student has to write a seat number in both numbers and word format. Write a program to convert seat number to its word format.**

**Ex: 123 – OneTwoThree**

Ans:

#include<stdio.h>

#include<stdlib.h>

int main()

{

long int n,rev=0,r;

system("cls");

printf("enter the number=");

scanf("%ld",&n);

//first reverse a number

while(n>0)

{

r=n%10; //get last digit of number

rev=rev\*10+r; //store digit form last

n=n/10; //remove digit after storing it

}

n=rev;

while(n>0)

{

r=n%10; //get last digit of reversed number i.e. first digit of the actual number

switch(r)

{

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 0:

printf("zero ");

break;

default:

printf("tttt");

break;

}

n=n/10; //remove last digit after printing its equivalent word

}

return 0;

}

|  | **Test Case 1** | **Test Case 2** | **Test Case 3** |
| --- | --- | --- | --- |
| **Input** | 55 | 456 | 1234 |
| **Output** | Five five | four five six | One two three four |