Task-2
Conceptual Questions in programming

Aim :- To test the understanding of core programming concepts such as variables, control structures, functions, data types, loops, recursion, object iented principles and program for problem-solving ability.

Algorithm

Read the question carefully.

Understand the topic (e.g., array, loops, functions)
Identify the main concept being tested.

Analyze the program.

Determine input and expected output.
Identify any constraints or edge cases.

Plan the logic:

Break the problem into smaller steps.

Write Pseudocode

elp clarity logic befor actual coding.

Implement in code

use proper syntax for the language

Test with sample inputs;

try normal.

Task2:Conceptual Questions in Programming

1. What is the value assigned to the variable X if b is 7.

X = 7 >8 ? b << 3:7 >4 ? 7 >> 1: b;

What will be printed by the code below?

```
int main() { printf("Hi
Friends"+3); return 0' }
```

2. What will be printed as the result of the operation below?

```
int main()/ { char
a=5,b=9;
printf("%d\n",a&b);
return 0;
}
```

3. What is the value assigned to the variable z

```
int main(void)
{ int a=0,b=: if(!a) { b
=!a; if(b) a =!b; }
printf("%d %d\n",a,b);
return 0;
}
```

5. What will be printed as the result of the operation below?

```
int main() {
int x=5,y=-11,a=2,b=8; int

z=x++ - --y * b / a;
printf("%d",z); return
);
```

. What will be printed as the result of the operation below?

```
it main() { char
=5,b=9;
rintf("%d",b>>1;
:turn 0;
```

Output:

1. 111

2. 30
   20

3. Main's i = 0
   Main's i = 100
   Main's i = 101
   Main's i = 100

   3.140000

output is 53.
error: Missing [#include <stdio.h>] add it

error: Missing [#include < stdio.h>]
output is 4.

error: if (scanf ("%d", P, =1)
           Printf ("Invalid input \n");
           return 1;
           return 0;
put is 10 15

3.) error: Add #include <stdio.h>
                 #include <conio.h>
                 int main() {
                 double result = F(1.0)
                 Printf ["%.f \n", result);
                 return 0; }

output is 1.732143

) error: Add #include <stdio.h>
                 int main() {
                 char in char = 'A';
                 return 0; }

output is choice A.

) Output is
   4   2
   6   2
   2   0

rror:- Add #include <stdio.h>.

Result :-
The program is executed and verified successfully.