|  |  |
| --- | --- |
| **Q.1** | **Shortcut Keys** |
| **Code** | Cut - command+x Copy - command+c Paste - command+v  Select All - command+a Finder - command+n  New Tab in Chrome - command+T Shutdown - control+command+option+power Switching two windows - command+Tab Snipping Tool - command+shift+4 |
| **Q.2** | **Take two variables & print it** |
| **Code** | var a=10 var b=20 print(a) print(b) |
| **Snapshot** |  |
| **Q.3** | **Take two float variable & perform +,-,\*,/** |
| **Code** | var a:Float=10.5 var b:Float=20.7  print("Addition is:",(a+b))  print("Subtraction is:",(a-b)) print("Multiplication is:",(a\*b)) print("Division is:",(a/b)) |

|  |  |
| --- | --- |
| **Snapshot** |  |
| **Q.4** | **Perform employee number,name,CL,Salary** |
| **Code** | var Eno:Int=1  var Name:String="Deep" var CL:Float=3.5  var Salary:Double=2500000 print("Employee Number:",Eno) print("Emplopyee Name:",Name) print("Employee Leaves:",CL) print("Employee Salary:",Salary) |
| **Snapshot** |  |
| **Q.5** | **Take one string & print it** |
| **Code** | var a:String="Hello World" print(a) |

|  |  |
| --- | --- |
| **Snapshot** |  |
| **Q.6** | Print command |
| **Code** | print("\*\*\*\*\*\*") print("$$$$$$") print("BCA6") print("$$$$$$") print("\*\*\*\*\*\*") |
| **Snapshot** |  |

|  |  |
| --- | --- |
| **Q.1** | **Declare a variable using var keyword** |
| **Code** | import UIKit  import PlaygroundSupport var Dozen = 24 |
| **Snapshot** |  |
| **Q.2** | **Declare a constant using the let keyword.** |
| **Code** | let pi = 3.14 print(pi) |
| **Snapshot** |  |
| **Q.3** | **Declare a variable of String , Int , Float , Double of Specific type** |
| **Code** | var language:String="Swift" var number:Int=3 |

|  |  |
| --- | --- |
|  | var pi:Float=3.14  var latitude:Double=3.098865454  print(language) print(number) print(pi) print(latitude) |
| **Snapshot** |  |
| **Q.4** | **Perform Addition , subtraction , multiplication and division using variable** |
| **Code** | var a = 9 var b = 10  print("Addition is:",(a+b))  print("Subtraction is:",(a-b)) print("Multiplication is:",(a\*b)) print("Division is:",(a/b)) |
| **Snapshot** |  |

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| --- | --- |
| **Q-1** | **Create a program to check whether it even or odd** |
| Code: | import Foundation |
|  | print("enter number") |
|  | if let no1 = readLine(), |
|  | let no2 = Int(no1) |
|  | { |
|  | if(no2 % 2==0) |
|  | { |
|  | print("even number") |
|  | } |
|  | else |
|  | { |
|  | print("odd number") |
|  | } |
|  | } |
| Snapshot |  |
|  |  |
| **Q-2** | **Use if condition an check whether leap year or not** |
| Code: | import Foundation |
|  | print("enter year") |
|  | if let no1 = readLine(), |
|  | let no2 = Int(no1) |
|  | { |
|  | if(no2 % 4==0) |
|  | { |
|  | print("leap year") |
|  | } |
|  | else |
|  | { |
|  | print("not a leap year") |
|  | } |
|  | } |
| Snapshot |  |
|  |  |

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| --- | --- |
| **Q-3** | **Demonstrate a program to check whether string is vowel or constant** |
| Code: | import Foundation |
|  | print("enter Character") |
|  | if let ch = readLine() |
|  | { |
|  | if(ch == "a" || ch == "e" || ch == "i" || ch == "o" || ch == "u" || |
|  | ch == "A" || ch == "E" || ch == "I" || ch == "O" || ch == "U") |
|  | { |
|  | print("Character is vovel ") |
|  | } |
|  | else{ |
|  | print("Character is constant ") |
|  | } |
|  | } |
| Snapshot |  |
|  |  |
| **Q-4** | **Create a program positive or negative.** |
| Code: | import Foundation |
|  | print("enter number") |
|  | if let no1 = readLine(), |
|  | let no2 = Int(no1) |
|  | { |
|  | if(no2>0) |
|  | { |
|  | print("Positive number") |
|  | } |
|  | else if(no2<0) |
|  | { |
|  | print("Negative number") |
|  | } |
|  | else |
|  | { |
|  | print("zero") |
|  | } |
|  | } |

|  |  |
| --- | --- |
| Snapshot |  |
|  |  |
| **Q-5** | **Create a program to perform grade sheet and allocate which rank it.** |
| Code: | import Foundation |
|  | print("enter your percentage") |
|  | if let no1 = readLine(), |
|  | let avg = Int(no1) |
|  | { |
|  | if(avg>=90) |
|  | { |
|  | print("Grade: A") |
|  | } |
|  | else if(avg>=70 && avg<90) |
|  | { |
|  | print("Grade: B") |
|  | } |
|  | else if(avg>=60 && avg<70) |
|  | { |
|  | print("Grade: C") |
|  | } |
|  | else if(avg>=50 && avg<60) |
|  | { |
|  | print("Grade: D") |
|  | } |
|  | else |
|  | { |
|  | print("Fail") |
|  | }} |
| Snapshot |  |

|  |  |
| --- | --- |
| **Q-1** | **Take name from keyboard print it** |
| **Code** | **import Foundation**  **print("Enter your name:") let nm = readLine();**  **print("Your name is: \(nm!)")** |
| **snapshot** |  |
|  |  |
| **Q-2** | **Take two integer from keyboard an do operation +,-,\*,%** |
| **Code** | **import Foundation**  **print("enter two numbers:") if let a = readLine(),**  **let b = readLine(), let a1 = Int(a),**  **let b1 = Int(b)**  **{**  **print("Addition: \(a1+b1)") print("Subtraction: \(a1-b1)") print("Multiplication \(a1\*b1)") print("Division \(a1/b1)")**  **}** |
| **snapshot** |  |
|  |  |
| **Q-3** | **Take limit from keyboard an print even series** |
| **Code** | **import Foundation**  **print("Enter Number:") let n:Int = Int(readLine()!)!**  **for i in 1...n{ if(i%2==0)**  **{**  **print(i)**  **}**  **}** |

|  |  |
| --- | --- |
| **snapshot** |  |
|  |  |
| **Q-4** | **Take limit from keyboard an print odd series** |
| **Code** | **import Foundation**  **print("Enter Number:") let n:Int = Int(readLine()!)!**  **for i in 1...n{ if(i%2==1)**  **{**  **print(i)**  **}**  **}** |
| **snapshot** |  |
|  |  |
| **Q-5** | **Take numbers from the keyboard and perform factorial.** |
| **Code** | **import Foundation**  **print("Enter Number:") if let num=readLine(),**  **let n=Int(num)**  **{**  **print("Factorial = \(n\*n)")**  **}** |
| **snapshot** |  |

|  |  |
| --- | --- |
| **Q-1** | **Print natural number** |
| **code** | **print("enter number")** |
|  | **if let no1 = readLine(),** |
|  | **let no2 = Int(no1)** |
|  | **{** |
|  | **for i in 1...no2** |
|  | **{** |
|  | **print(i)** |
|  | **}** |
|  | **}** |
| **snapshot** |  |
|  |  |
| **Q-2** | **Print even series** |
| **code** | **print("enter number")** |
|  | **if let no1 = readLine(),** |
|  | **let no2 = Int(no1)** |
|  | **{** |
|  | **for i in 1...no2** |
|  | **{** |
|  | **if (i % 2 == 0)** |
|  | **{** |
|  | **print("even number",i)** |
|  | **}** |
|  | **}** |
|  | **}** |
| **snapshot** |  |
|  |  |
| **Q-3** | **Print odd series** |
| **code** | **print("enter odd number") if let no1 = readLine(),** |

|  |  |
| --- | --- |
|  | **let no2 = Int(no1)**  **{**  **for i in 1...no2**  **{**  **if (i % 2 != 0)**  **{**  **print("odd number",i)**  **}**  **}**  **}** |
| **snapshot** |  |
|  |  |
| **Q-4** | **Print factorial series** |
| **code** | **func factorial(n: Int) -> Int**  **{**  **return n <= 1 ? 1 : n \* factorial(n: n - 1)**  **}**  **let num = 5**  **let result = factorial(n: num) print("\(num)! = \(result)")** |
| **snapshot** |  |
|  |  |
| **Q-5** | **Print Pattern**  **\***  **\*\***  **\*\*\***  **\*\*\*\*** |
| **code** | **let n:Int = 4 for i in 1...n**  **{**  **for j in 1...n**  **{** |

|  |  |
| --- | --- |
|  | **if j<=i**  **{**  **print("\* ", terminator:"")**  **}**  **}**  **print("\n")**  **}** |
| **snapshot** |  |
|  |  |
| **Q-6** | **Print Pattern to print table of 2** |
| **code** | **print("enter number") if let no1 = readLine(), let no2 = Int(no1)**  **{**  **for i in 1...10**  **{**  **print("\(no2) \* \(i) = \(no2\*i)")**  **}**  **}** |
| **snapshot** |  |

|  |  |
| --- | --- |
| **Q-1** | **WRITE A PROGRAM TO PRINT YOUR NAME** |
| **Code** | import UIKit  var greeting = "Vrushabh ramani" print(greeting) |
| **Output** |  |
|  |  |
|  |  |
| **Q-2** | **WRITE A PROGRAM TO PERFORM ARITHMETIC OPERATIONS** |
| **Code** | import UIKit  var v1 = 10 var v2 = 20  print(v1+v2) print(v1-v2) print(v1\*v2) print(v1/v2) |
| **Output** |  |
|  |  |
|  |  |
| **Q-3** | **WRITE A PROGRAM TO PRINT PYRAMID** |
| **Code** | import UIKit  print("\*")  print("\*\*")  print("\*\*\*")  print("\*\*\*\*") print("\*\*\*\*\*") |

|  |  |
| --- | --- |
|  |  |
| **Output** |  |
|  |  |
|  |  |
| **Q-4** | **PERFORM ADDITION OPERATION** |
| **Code** | import UIKit  var v1 = 10  var v2 = 20 print(v1+v2) |
| **Output** |  |
|  |  |
|  |  |
| **Q-5** | **Program to print Rollno, Name , Age and Marks** |
| **Code** | var roll=45 var age=20 var marks=30  print("roll no is:",roll) print("age is:",age) print("marks obtained:",marks) |
| **Output** |  |

|  |  |
| --- | --- |
|  |  |
|  |  |
| **Q-6** | **Program to print RK University 5 times** |
| **Code** | import UIKit  for i in 1...5  {  print("rk university")  } |
| **Output** |  |
|  |  |
|  |  |
| **Q-7** | **Program to convert (meter to centimeter and vice versa)** |
| **Code** | import UIKit  var meter=10;  var cm=meter\*100 print("centimeter is:",cm) |
| **Output** |  |
|  |  |
|  |  |
| **Q-8** | **Program to convert (Celsius to Fahrenheit and vive versa )** |

|  |  |
| --- | --- |
| **Code** | import UIKit  var meter=10;  var cm=meter\*100 print("centimeter is:",cm) |
| **Output** |  |
|  |  |
|  |  |
| **Q-9** | **Program to convert (Dozen to pieces and vive versa)** |
| **Code** | import UIKit  var dz=10; var pc=dz\*12  print("pieces is:",pc) |
| **Output** |  |

|  |  |
| --- | --- |
| **Q-1** | **Create a program to check which day (Mon, Tue, Wed, Thu, Fri,Sat) it is (Static)** |
| **Code** | **import** Foundation  **var** day=2;  **switch**(day)  {  **case** 1:  print("monday");  **case** 2:  print("tuesday")  **case** 3:  print("wednesday")  **case** 4:  print("thrusday")  **case** 5:  print("friday")  **case** 6:  print("saturday")  **case** 7:  print("sunday")  **default**:  print("Please enter a valid day!")  } |
| **Output** |  |
|  |  |
| **Q-2** | **Create a program using question 1 and take it from user input** |
| **Code** | **import** Foundation  print("Enter a day:") **var** day:Int; day=Int(readLine()!)! |

|  |  |
| --- | --- |
|  | **switch**(day)  {  **case** 1: print("monday");  **case** 2:  print("tuesday")  **case** 3:  print("wednesday")  **case** 4:  print("thrusday")  **case** 5:  print("friday")  **case** 6:  print("saturday")  **case** 7:  print("sunday")  **default**:  print("Please enter a valid day!")  } |
| **Output** |  |
|  |  |
| **Q-3** | **Create a program using switch case to check number (Dynamic entry from keyboard)** |
| **Code** | **import** Foundation  print("Enter a number:") **var** no:Int; no=Int(readLine()!)!  **switch**(no)  {  **case** \_ **where** no > 0: print("positive")  **case** \_ **where** no < 0: print("Negative") |

|  |  |
| --- | --- |
|  | **case** \_ **where** no == 0: print("it is zero")  **default**:  print("please enter a number!!!")  } |
| **Output** |  |
|  |  |
| **Q-4** | **Create a program in switch case taking +,-,\*,% which perform operation . Take value from keyboard** |
| **Code** | **import** Foundation  print("Enter a number1:") **var** no1:Int; no1=Int(readLine()!)!  print("Enter a number2:") **var** no2:Int; no2=Int(readLine()!)!  print("Enter expression(+,\*,/,-):") **var**  ex:String; ex=String(readLine()!)  **switch**(ex)  {  **case** "+" :  print("Addition is:\(no1+no2)")  **case** "-" :  print("Substraction is:\(no1-no2)")  **case** "/" :  print("Division is:\(no1/no2)")  **case** "\*" :  print("Multiplication is:\(no1\*no2)")  **default**: |

|  |  |
| --- | --- |
|  | print("Enter valid expression!!!")  } |
| **Output** |  |
|  |  |
| **Q-5** | **create a program of bank while using switch case : if user enter s means saving account, if f : ﬁxed deposit account, if r: recurring account and perform operation on amount taken from keyboard** |
| **Code** | **import Foundation print("Enter a amount:") var amt:Int; amt=Int(readLine()!)!**  **print("Enter case(s,f,r):") var ex:String; ex=String(readLine()!)**  **switch(ex)**  **{**  **case "s":**  **print("amount is:\(amt+100)") case "f":**  **print("amount is:\(amt+200)") case "r":**  **print("amount is:\(amt+300)") default:**  **print("Enter valid expression!!!")**  **}** |

|  |  |
| --- | --- |
| **Output** |  |